



8165 E. Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

## Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L072110302.IES**

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L072110302  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 7/12/2021  
[MANUFAC] Bartco Lighting, Inc.  
[LUMCAT] BSS501-50-35-ND-R-L-NA-NA-SN-AW  
[LUMINAIRE] Tubular series - 1-3/8" O.D. arm mount LED luminaire,  
[MORE] remote driver, Lambertian optic  
[BALLASTCAT] PHILIPS ADVANCE XI040C110V054BST1  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 120.05VAC, 23.55W  
[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2175
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	23.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.04 ft
Luminous Height	0.02 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15935	18198	22211
55	12925	15047	19280
65	10831	12446	16417
75	9622	10732	13967
85	9590	10467	13297

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0.0</b>	850.07	850.07	850.07	850.07	850.07	850.07	850.07	850.07	850.07	850.07
<b>5.0</b>	847.13	847.00	847.08	847.08	847.08	847.08	847.08	847.21	847.29	847.34
<b>10.0</b>	830.78	830.82	830.82	831.03	831.24	831.45	831.62	831.87	832.21	832.46
<b>15.0</b>	801.19	801.23	801.48	801.82	802.36	802.95	803.54	804.29	805.09	805.89
<b>20.0</b>	758.11	758.23	758.61	759.40	760.41	761.58	762.88	764.35	765.98	767.37
<b>25.0</b>	702.53	702.82	703.58	704.92	706.55	708.61	710.83	713.18	715.69	718.08
<b>30.0</b>	637.65	637.94	638.99	640.88	643.39	646.33	649.55	653.07	656.59	660.03
<b>35.0</b>	566.15	566.61	568.08	570.42	573.52	577.30	581.45	585.97	590.50	594.98
<b>37.5</b>	529.68	530.10	531.74	534.21	537.73	541.67	546.20	551.06	555.96	560.95
<b>40.0</b>	493.56	494.23	495.90	498.54	502.06	506.26	511.03	515.90	521.09	525.91
<b>42.5</b>	457.85	458.27	460.11	462.84	466.36	470.80	475.58	480.82	486.22	491.04
<b>45.0</b>	423.31	423.77	425.49	428.13	431.78	436.14	441.00	446.24	451.39	456.46
<b>47.5</b>	390.29	390.70	392.38	394.94	398.42	402.65	407.34	412.41	417.49	422.26
<b>50.0</b>	358.77	359.19	360.74	363.04	366.44	370.46	374.86	379.68	384.54	388.82
<b>52.5</b>	329.76	330.27	331.61	333.79	336.68	340.16	344.18	348.54	352.77	356.84
<b>55.0</b>	302.35	302.73	303.90	305.83	308.56	311.66	315.14	318.95	322.64	326.16
<b>57.5</b>	276.96	277.16	278.21	279.97	282.15	284.88	287.85	290.95	294.01	296.86
<b>60.0</b>	253.32	253.65	254.62	255.96	257.89	260.06	262.45	264.88	267.36	269.24
<b>62.5</b>	231.35	231.73	232.40	233.53	235.00	236.89	238.73	240.49	242.13	243.34
<b>65.0</b>	211.32	211.53	212.08	212.91	214.13	215.43	216.77	217.94	218.78	219.20
<b>67.5</b>	192.63	192.80	193.22	193.84	194.60	195.60	196.27	196.90	197.15	196.86
<b>70.0</b>	175.19	175.40	175.65	176.07	176.58	177.12	177.37	177.37	177.12	176.07
<b>72.5</b>	159.60	159.64	159.81	160.06	160.36	160.52	160.40	159.94	158.89	157.21
<b>75.0</b>	144.68	144.68	144.76	144.81	144.81	144.60	144.18	143.30	141.79	139.65
<b>77.5</b>	131.02	130.98	131.02	130.93	130.68	130.18	129.42	128.08	126.16	123.47
<b>80.0</b>	119.37	119.32	119.24	119.03	118.57	117.86	116.77	115.05	112.74	109.68
<b>85.0</b>	96.90	96.90	96.65	96.15	95.39	94.22	92.67	90.45	87.60	83.91
<b>90.0</b>	78.12	77.96	77.62	76.95	75.95	74.52	72.63	70.20	67.02	63.08
<b>95.0</b>	62.28	62.20	61.78	60.98	59.98	58.38	56.29	53.82	50.55	46.73
<b>100.0</b>	49.21	49.08	48.66	47.86	46.73	45.18	43.13	40.61	37.51	34.03
<b>105.0</b>	38.48	38.39	37.89	37.13	36.00	34.54	32.65	30.39	27.58	24.48
<b>110.0</b>	29.84	29.76	29.30	28.54	27.54	26.11	24.48	22.38	19.99	17.31
<b>115.0</b>	22.80	22.67	22.26	21.67	20.66	19.41	17.98	16.18	14.17	11.86
<b>120.0</b>	17.02	16.89	16.56	15.97	15.17	14.04	12.78	11.32	9.56	7.84
<b>125.0</b>	12.32	12.20	11.86	11.36	10.69	9.77	8.76	7.59	6.33	5.07
<b>130.0</b>	8.47	8.38	8.17	7.75	7.21	6.58	5.83	5.03	4.19	3.31
<b>135.0</b>	5.70	5.66	5.49	5.20	4.86	4.36	3.86	3.31	2.64	2.05
<b>140.0</b>	3.86	3.77	3.65	3.48	3.19	2.85	2.43	2.18	2.10	2.10
<b>145.0</b>	2.43	2.39	2.31	2.22	2.22	2.31	2.26	2.31	2.31	2.35
<b>150.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles      Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
<b>0.0</b>	850.07	850.07	850.07	850.07	850.07	850.07	850.07	850.07	850.07	850.07
<b>5.0</b>	847.38	847.34	847.46	847.50	847.55	847.55	847.59	847.59	847.55	847.59
<b>10.0</b>	832.79	833.04	833.34	833.63	833.80	833.97	834.05	834.13	834.13	834.13
<b>15.0</b>	806.72	807.48	807.94	808.61	809.11	809.49	809.70	809.87	809.91	809.87

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**CANDELA TABULATION - (Cont.)**

<b>20.0</b>	768.83	770.09	771.27	772.31	773.15	773.91	774.41	774.66	774.62	774.66
<b>25.0</b>	720.43	722.56	724.32	725.92	727.34	728.31	729.14	729.65	729.69	729.65
<b>30.0</b>	663.34	666.36	669.04	670.97	672.40	673.61	674.53	674.95	675.04	674.95
<b>35.0</b>	599.17	602.44	605.38	607.81	609.61	611.20	611.96	612.54	612.59	612.54
<b>37.5</b>	565.14	568.83	571.89	574.49	576.46	577.80	578.60	579.14	579.31	579.14
<b>40.0</b>	530.40	534.38	537.52	540.25	542.13	543.52	544.19	544.77	544.94	544.77
<b>42.5</b>	495.61	499.63	502.90	505.33	507.18	508.44	509.06	509.53	509.57	509.53
<b>45.0</b>	461.03	464.93	468.03	470.46	472.14	473.23	473.82	474.15	474.36	474.15
<b>47.5</b>	426.71	430.19	433.20	435.38	436.81	437.73	438.23	438.48	438.48	438.48
<b>50.0</b>	392.93	396.24	398.96	400.81	402.02	402.61	402.94	403.19	403.19	403.19
<b>52.5</b>	360.40	363.25	365.43	366.98	367.86	368.28	368.41	368.41	368.32	368.41
<b>55.0</b>	329.14	331.52	333.08	334.17	334.71	334.75	334.71	334.58	334.71	334.58
<b>57.5</b>	299.25	301.01	302.06	302.61	302.73	302.40	302.10	301.85	301.77	301.85
<b>60.0</b>	270.84	271.97	272.34	272.26	271.76	271.26	270.71	270.25	270.17	270.25
<b>62.5</b>	244.05	244.26	243.93	243.26	242.34	241.37	240.53	239.95	239.74	239.95
<b>65.0</b>	219.16	218.45	217.27	215.97	214.42	212.96	211.95	211.20	210.73	211.20
<b>67.5</b>	195.86	194.35	192.33	190.16	188.06	186.17	184.75	183.78	183.49	183.78
<b>70.0</b>	174.35	172.01	169.28	166.31	163.50	161.03	159.35	158.18	157.76	158.18
<b>72.5</b>	154.91	151.76	148.20	144.22	140.62	137.51	135.29	134.08	133.53	134.08
<b>75.0</b>	136.59	132.95	128.54	123.72	119.24	115.38	112.70	111.24	110.65	111.24
<b>77.5</b>	119.99	115.68	110.69	105.16	99.92	95.10	91.83	90.11	89.52	90.11
<b>80.0</b>	105.66	100.92	95.39	89.32	83.28	77.79	73.60	71.59	70.92	71.59
<b>85.0</b>	79.26	73.89	67.86	61.19	54.15	47.28	41.20	37.60	36.80	37.60
<b>90.0</b>	58.26	52.81	46.56	39.82	32.69	25.61	18.44	12.15	8.47	12.15
<b>95.0</b>	42.00	36.80	31.06	24.85	18.61	12.49	6.58	1.84	0.42	1.84
<b>100.0</b>	29.72	25.19	20.29	15.13	10.31	5.78	2.10	0.55	0.50	0.55
<b>105.0</b>	20.79	17.02	12.99	8.97	5.41	2.52	0.75	0.67	0.59	0.67
<b>110.0</b>	14.29	11.23	8.09	5.07	2.81	1.09	0.84	0.75	0.75	0.75
<b>115.0</b>	9.51	7.08	4.82	2.85	1.43	1.01	1.01	1.01	0.92	1.01
<b>120.0</b>	6.04	4.36	2.89	1.59	1.26	1.17	1.17	1.17	1.17	1.17
<b>125.0</b>	3.90	2.72	1.72	1.47	1.43	1.43	1.43	1.43	1.43	1.43
<b>130.0</b>	2.43	1.72	1.64	1.64	1.64	1.59	1.59	1.59	1.59	1.59
<b>135.0</b>	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.93	1.93	1.93
<b>140.0</b>	2.10	2.14	2.14	2.14	2.14	2.10	2.10	2.10	2.10	2.10
<b>145.0</b>	2.35	2.35	2.35	2.35	2.35	2.35	2.39	2.43	2.43	2.43
<b>150.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
<b>0.0</b>	850.07	850.07	850.07	850.07	850.07	850.07	850.07	850.07	850.07	850.07
<b>5.0</b>	847.59	847.55	847.55	847.50	847.46	847.34	847.38	847.34	847.29	847.21
<b>10.0</b>	834.05	833.97	833.80	833.63	833.34	833.04	832.79	832.46	832.21	831.87
<b>15.0</b>	809.70	809.49	809.11	808.61	807.94	807.48	806.72	805.89	805.09	804.29
<b>20.0</b>	774.41	773.91	773.15	772.31	771.27	770.09	768.83	767.37	765.98	764.35
<b>25.0</b>	729.14	728.31	727.34	725.92	724.32	722.56	720.43	718.08	715.69	713.18
<b>30.0</b>	674.53	673.61	672.40	670.97	669.04	666.36	663.34	660.03	656.59	653.07
<b>35.0</b>	611.96	611.20	609.61	607.81	605.38	602.44	599.17	594.98	590.50	585.97
<b>37.5</b>	578.60	577.80	576.46	574.49	571.89	568.83	565.14	560.95	555.96	551.06
<b>40.0</b>	544.19	543.52	542.13	540.25	537.52	534.38	530.40	525.91	521.09	515.90

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**CANDELA TABULATION - (Cont.)**

<b>42.5</b>	509.06	508.44	507.18	505.33	502.90	499.63	495.61	491.04	486.22	480.82
<b>45.0</b>	473.82	473.23	472.14	470.46	468.03	464.93	461.03	456.46	451.39	446.24
<b>47.5</b>	438.23	437.73	436.81	435.38	433.20	430.19	426.71	422.26	417.49	412.41
<b>50.0</b>	402.94	402.61	402.02	400.81	398.96	396.24	392.93	388.82	384.54	379.68
<b>52.5</b>	368.41	368.28	367.86	366.98	365.43	363.25	360.40	356.84	352.77	348.54
<b>55.0</b>	334.71	334.75	334.71	334.17	333.08	331.52	329.14	326.16	322.64	318.95
<b>57.5</b>	302.10	302.40	302.73	302.61	302.06	301.01	299.25	296.86	294.01	290.95
<b>60.0</b>	270.71	271.26	271.76	272.26	272.34	271.97	270.84	269.24	267.36	264.88
<b>62.5</b>	240.53	241.37	242.34	243.26	243.93	244.26	244.05	243.34	242.13	240.49
<b>65.0</b>	211.95	212.96	214.42	215.97	217.27	218.45	219.16	219.20	218.78	217.94
<b>67.5</b>	184.75	186.17	188.06	190.16	192.33	194.35	195.86	196.86	197.15	196.90
<b>70.0</b>	159.35	161.03	163.50	166.31	169.28	172.01	174.35	176.07	177.12	177.37
<b>72.5</b>	135.29	137.51	140.62	144.22	148.20	151.76	154.91	157.21	158.89	159.94
<b>75.0</b>	112.70	115.38	119.24	123.72	128.54	132.95	136.59	139.65	141.79	143.30
<b>77.5</b>	91.83	95.10	99.92	105.16	110.69	115.68	119.99	123.47	126.16	128.08
<b>80.0</b>	73.60	77.79	83.28	89.32	95.39	100.92	105.66	109.68	112.74	115.05
<b>85.0</b>	41.20	47.28	54.15	61.19	67.86	73.89	79.26	83.91	87.60	90.45
<b>90.0</b>	18.44	25.61	32.69	39.82	46.56	52.81	58.26	63.08	67.02	70.20
<b>95.0</b>	6.58	12.49	18.61	24.85	31.06	36.80	42.00	46.73	50.55	53.82
<b>100.0</b>	2.10	5.78	10.31	15.13	20.29	25.19	29.72	34.03	37.51	40.61
<b>105.0</b>	0.75	2.52	5.41	8.97	12.99	17.02	20.79	24.48	27.58	30.39
<b>110.0</b>	0.84	1.09	2.81	5.07	8.09	11.23	14.29	17.31	19.99	22.38
<b>115.0</b>	1.01	1.01	1.43	2.85	4.82	7.08	9.51	11.86	14.17	16.18
<b>120.0</b>	1.17	1.17	1.26	1.59	2.89	4.36	6.04	7.84	9.56	11.32
<b>125.0</b>	1.43	1.43	1.43	1.47	1.72	2.72	3.90	5.07	6.33	7.59
<b>130.0</b>	1.59	1.59	1.64	1.64	1.64	1.72	2.43	3.31	4.19	5.03
<b>135.0</b>	1.89	1.89	1.89	1.89	1.89	1.89	1.89	2.05	2.64	3.31
<b>140.0</b>	2.10	2.10	2.14	2.14	2.14	2.14	2.10	2.10	2.10	2.18
<b>145.0</b>	2.39	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.31	2.31
<b>150.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0.0</b>	850.07	850.07	850.07	850.07	850.07	850.07	850.07
<b>5.0</b>	847.08	847.08	847.08	847.08	847.08	847.00	847.13
<b>10.0</b>	831.62	831.45	831.24	831.03	830.82	830.82	830.78
<b>15.0</b>	803.54	802.95	802.36	801.82	801.48	801.23	801.19
<b>20.0</b>	762.88	761.58	760.41	759.40	758.61	758.23	758.11
<b>25.0</b>	710.83	708.61	706.55	704.92	703.58	702.82	702.53
<b>30.0</b>	649.55	646.33	643.39	640.88	638.99	637.94	637.65
<b>35.0</b>	581.45	577.30	573.52	570.42	568.08	566.61	566.15
<b>37.5</b>	546.20	541.67	537.73	534.21	531.74	530.10	529.68
<b>40.0</b>	511.03	506.26	502.06	498.54	495.90	494.23	493.56
<b>42.5</b>	475.58	470.80	466.36	462.84	460.11	458.27	457.85
<b>45.0</b>	441.00	436.14	431.78	428.13	425.49	423.77	423.31
<b>47.5</b>	407.34	402.65	398.42	394.94	392.38	390.70	390.29
<b>50.0</b>	374.86	370.46	366.44	363.04	360.74	359.19	358.77
<b>52.5</b>	344.18	340.16	336.68	333.79	331.61	330.27	329.76
<b>55.0</b>	315.14	311.66	308.56	305.83	303.90	302.73	302.35

**IES INDOOR REPORT  
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**CANDELA TABULATION - (Cont.)**

<b>57.5</b>	287.85	284.88	282.15	279.97	278.21	277.16	276.96
<b>60.0</b>	262.45	260.06	257.89	255.96	254.62	253.65	253.32
<b>62.5</b>	238.73	236.89	235.00	233.53	232.40	231.73	231.35
<b>65.0</b>	216.77	215.43	214.13	212.91	212.08	211.53	211.32
<b>67.5</b>	196.27	195.60	194.60	193.84	193.22	192.80	192.63
<b>70.0</b>	177.37	177.12	176.58	176.07	175.65	175.40	175.19
<b>72.5</b>	160.40	160.52	160.36	160.06	159.81	159.64	159.60
<b>75.0</b>	144.18	144.60	144.81	144.81	144.76	144.68	144.68
<b>77.5</b>	129.42	130.18	130.68	130.93	131.02	130.98	131.02
<b>80.0</b>	116.77	117.86	118.57	119.03	119.24	119.32	119.37
<b>85.0</b>	92.67	94.22	95.39	96.15	96.65	96.90	96.90
<b>90.0</b>	72.63	74.52	75.95	76.95	77.62	77.96	78.12
<b>95.0</b>	56.29	58.38	59.98	60.98	61.78	62.20	62.28
<b>100.0</b>	43.13	45.18	46.73	47.86	48.66	49.08	49.21
<b>105.0</b>	32.65	34.54	36.00	37.13	37.89	38.39	38.48
<b>110.0</b>	24.48	26.11	27.54	28.54	29.30	29.76	29.84
<b>115.0</b>	17.98	19.41	20.66	21.67	22.26	22.67	22.80
<b>120.0</b>	12.78	14.04	15.17	15.97	16.56	16.89	17.02
<b>125.0</b>	8.76	9.77	10.69	11.36	11.86	12.20	12.32
<b>130.0</b>	5.83	6.58	7.21	7.75	8.17	8.38	8.47
<b>135.0</b>	3.86	4.36	4.86	5.20	5.49	5.66	5.70
<b>140.0</b>	2.43	2.85	3.19	3.48	3.65	3.77	3.86
<b>145.0</b>	2.26	2.31	2.22	2.22	2.31	2.39	2.43
<b>150.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	307.17	N.A.	14.10
0-30	636.86	N.A.	29.30
0-40	1006.84	N.A.	46.30
0-60	1645.33	N.A.	75.70
0-80	2001.51	N.A.	92.00
0-90	2085.6	N.A.	95.90
10-90	2005.22	N.A.	92.20
20-40	699.68	N.A.	32.20
20-50	1049.07	N.A.	48.20
40-70	852.55	N.A.	39.20
60-80	356.18	N.A.	16.40
70-80	142.11	N.A.	6.50
80-90	84.10	N.A.	3.90
90-110	68.01	N.A.	3.10
90-120	79.75	N.A.	3.70
90-130	85.21	N.A.	3.90
90-150	88.90	N.A.	4.10
90-180	88.90	N.A.	4.10
110-180	20.89	N.A.	1.00
0-180	2174.5	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	80.38
10-20	226.78
20-30	329.70
30-40	369.98
40-50	349.39
50-60	289.09
60-70	214.07
70-80	142.11
80-90	84.10
90-100	44.65
100-110	23.36
110-120	11.74
120-130	5.46
130-140	2.53
140-150	1.16
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	98	94	104	100	96	92	95	91	88	90	87	85	86	84	82	79
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	76	72	69	67
3	90	79	71	65	87	77	70	64	74	67	62	70	65	61	67	63	59	57
4	82	71	62	55	80	69	61	55	66	59	53	63	57	52	61	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	55	49	45	43
6	70	57	49	42	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	65	52	44	38	63	51	43	37	49	42	37	47	41	36	46	40	36	34
8	61	48	39	34	59	47	39	33	45	38	33	44	37	33	42	36	32	30
9	57	44	36	30	55	43	36	30	42	35	30	40	34	30	39	33	29	27
10	54	41	33	28	52	40	33	28	39	32	27	38	31	27	36	31	27	25

**IES INDOOR REPORT**  
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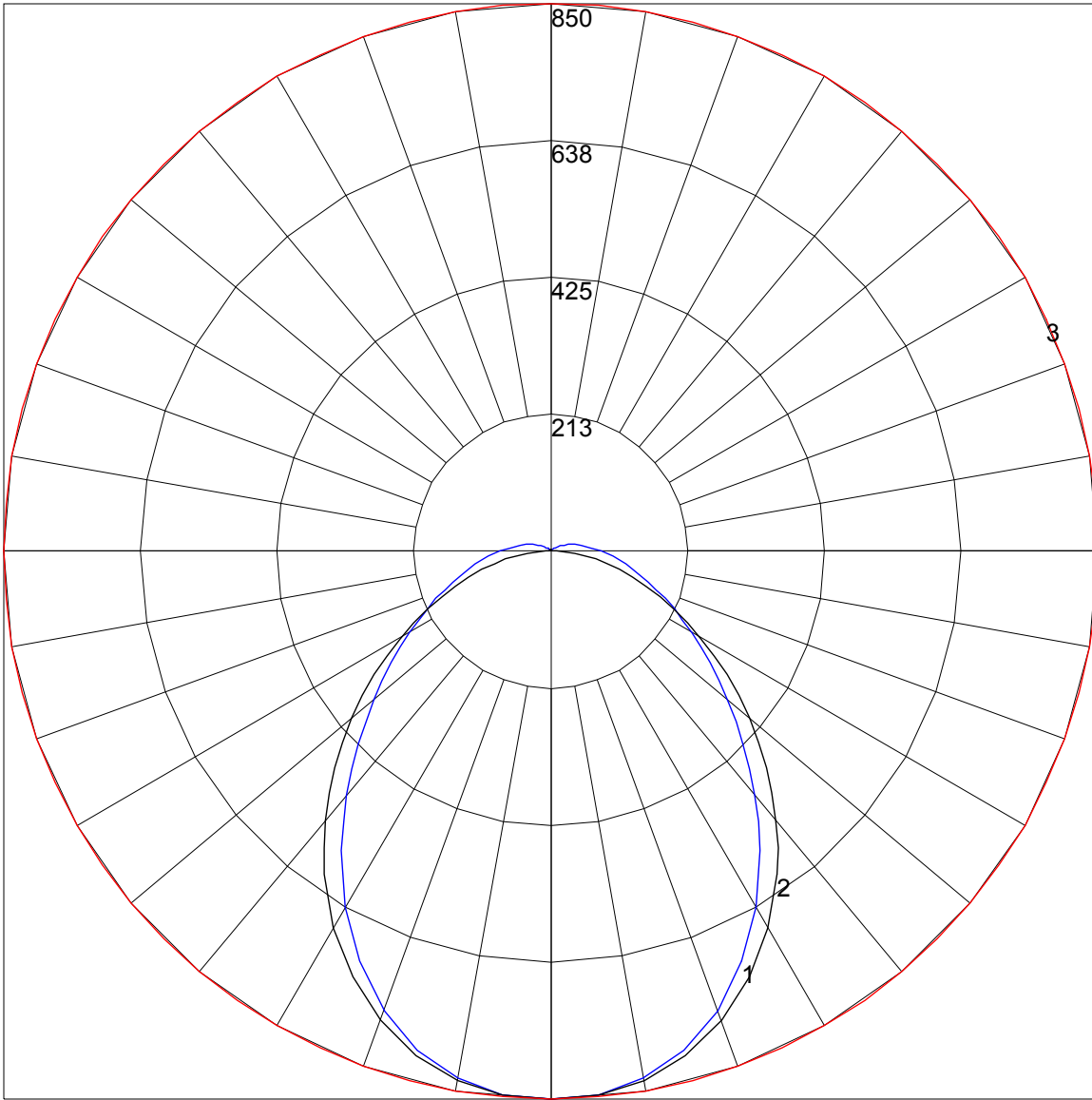
**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	20.7	22.2	21.2	22.6	23.0	20.5	22.0	21.0	22.4	22.9
	3H	22.7	24.1	23.2	24.5	24.9	21.9	23.3	22.4	23.7	24.1
	4H	23.7	25.0	24.1	25.4	25.9	22.4	23.7	22.8	24.1	24.6
	6H	24.7	25.9	25.1	26.3	26.8	22.7	23.9	23.2	24.3	24.8
	8H	25.2	26.4	25.7	26.8	27.3	22.8	23.9	23.3	24.4	24.9
	12H	25.8	26.9	26.3	27.4	27.9	22.8	23.9	23.3	24.4	24.9
4H	2H	21.2	22.5	21.7	23.0	23.4	21.1	22.4	21.6	22.8	23.3
	3H	23.5	24.6	23.9	25.0	25.5	22.7	23.8	23.2	24.3	24.8
	4H	24.6	25.6	25.1	26.1	26.6	23.3	24.3	23.8	24.8	25.4
	6H	25.8	26.6	26.3	27.2	27.7	23.8	24.7	24.3	25.2	25.7
	8H	26.4	27.2	26.9	27.7	28.3	23.9	24.8	24.5	25.3	25.8
	12H	27.1	27.9	27.7	28.4	29.0	24.0	24.8	24.6	25.3	25.9
8H	4H	24.9	25.7	25.4	26.2	26.7	23.8	24.6	24.3	25.1	25.7
	6H	26.2	26.9	26.8	27.5	28.0	24.4	25.1	24.9	25.6	26.2
	8H	27.0	27.6	27.6	28.2	28.8	24.6	25.3	25.2	25.8	26.4
	12H	27.9	28.4	28.5	29.0	29.7	24.8	25.4	25.4	25.9	26.6
12H	4H	24.9	25.6	25.4	26.2	26.7	23.9	24.6	24.4	25.2	25.7
	6H	26.3	26.9	26.9	27.5	28.1	24.6	25.2	25.2	25.7	26.4
	8H	27.1	27.7	27.7	28.2	28.9	24.9	25.5	25.5	26.0	26.7

Maximum UGR = 29.7



POLAR GRAPH



Maximum Candela = 850.07 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)