



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

# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L032210804.IES**

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L032210804  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 5/2/2022  
[MANUFAC] Bartco Lighting, Inc.  
[LUMCAT] RAD10-4-35-120-ND-H-A-C4-SN-AW  
[LUMINAIRE] 1-1/4 Wide Extruded Aluminum Housing LED Fixture  
[BALLASTCAT] CUSTOM DRIVER  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 120VAC  
[TEST PROCEDURE] IESNA:LM-79-08

## CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3175
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	26.96
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.08 ft
Luminous Height	0.06 ft

## LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20649	16254	15697
55	21568	14610	14201
65	21494	13032	12804
75	19919	11054	11484
85	22053	9340	10231

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	283.87	N.A.	8.90
0-30	600.44	N.A.	18.90
0-40	981.48	N.A.	30.90
0-60	1779.93	N.A.	56.10
0-80	2400.84	N.A.	75.60
0-90	2588.97	N.A.	81.60
10-90	2515.33	N.A.	79.20
20-40	697.61	N.A.	22.00
20-50	1101.3	N.A.	34.70
40-70	1148.64	N.A.	36.20
60-80	620.90	N.A.	19.60
70-80	270.71	N.A.	8.50
80-90	188.13	N.A.	5.90
90-110	280.45	N.A.	8.80
90-120	393.96	N.A.	12.40
90-130	477.68	N.A.	15.00
90-150	562.16	N.A.	17.70
90-180	585.66	N.A.	18.40
110-180	305.21	N.A.	9.60
0-180	3174.63	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	73.64
10-20	210.24
20-30	316.57
30-40	381.04
40-50	403.69
50-60	394.76
60-70	350.19
70-80	270.71
80-90	188.13
90-100	147.42
100-110	133.03
110-120	113.51
120-130	83.72
130-140	52.56
140-150	31.92
150-160	17.47
160-170	6.03
170-180	0.00

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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
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	102	97	92	87	98	93	88	84	85	81	78	78	75	72	71	69	67	63
2	92	83	76	69	88	80	73	67	73	67	63	67	62	58	61	58	54	51
3	84	72	64	57	79	69	61	55	64	57	52	58	53	48	54	49	45	42
4	76	64	54	47	72	61	53	46	56	49	44	52	46	41	47	43	38	36
5	70	57	47	40	66	54	46	39	50	43	37	46	40	35	43	37	33	31
6	64	51	42	35	61	49	40	34	45	38	32	42	35	31	38	33	29	27
7	60	46	37	31	57	44	36	30	41	34	29	38	32	27	35	30	26	23
8	55	42	33	27	53	40	32	27	37	30	25	35	29	24	32	27	23	21
9	52	38	30	24	49	37	29	24	34	28	23	32	26	22	30	24	21	19
10	48	35	27	22	46	34	27	21	32	25	21	30	24	20	28	22	19	17

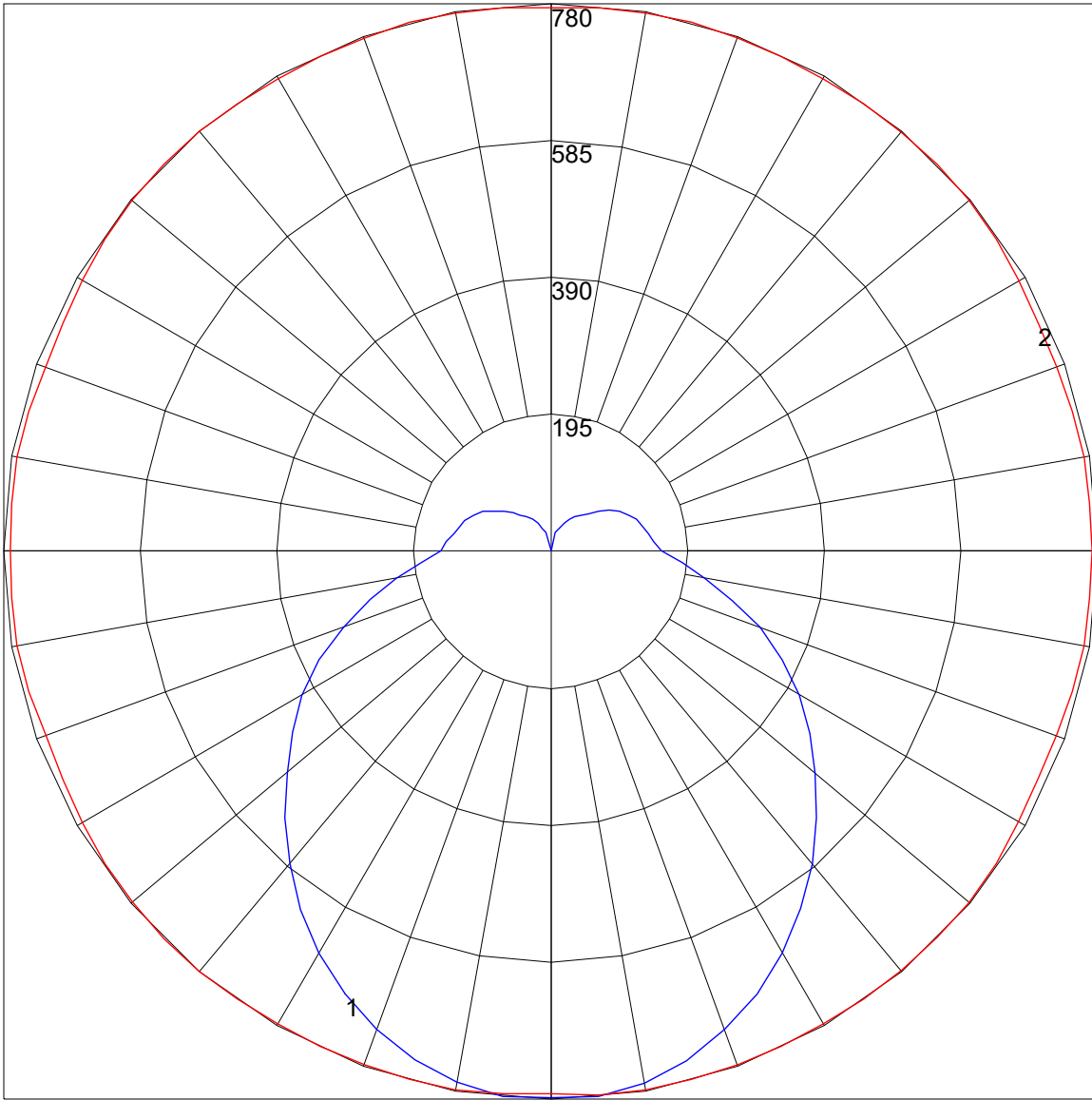
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**UGR TABLE - CORRECTED**

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	18.7	20.0	19.3	20.7	21.4	21.7	23.1	22.3	23.7	24.4
	3H	20.3	21.5	20.9	22.2	22.9	24.4	25.7	25.1	26.3	27.1
	4H	20.8	22.0	21.4	22.6	23.4	25.8	27.0	26.4	27.6	28.4
	6H	21.2	22.2	21.8	22.9	23.7	27.2	28.3	27.9	29.0	29.7
	8H	21.3	22.3	21.9	23.0	23.8	27.9	29.0	28.6	29.7	30.5
	12H	21.3	22.3	22.0	23.0	23.8	28.8	29.8	29.4	30.4	31.3
4H	2H	19.7	20.8	20.3	21.5	22.3	22.0	23.2	22.7	23.9	24.6
	3H	21.5	22.5	22.2	23.2	24.0	24.9	26.0	25.6	26.6	27.4
	4H	22.2	23.1	22.8	23.8	24.6	26.4	27.4	27.1	28.1	28.9
	6H	22.7	23.5	23.3	24.2	25.0	28.0	28.8	28.7	29.6	30.4
	8H	22.8	23.6	23.5	24.3	25.1	28.9	29.6	29.6	30.4	31.2
	12H	22.9	23.6	23.6	24.4	25.2	29.8	30.5	30.5	31.3	32.1
8H	4H	22.9	23.7	23.6	24.4	25.2	26.6	27.4	27.3	28.1	28.9
	6H	23.6	24.2	24.3	25.0	25.8	28.3	29.0	29.0	29.7	30.6
	8H	23.8	24.4	24.5	25.2	26.0	29.3	29.9	30.0	30.6	31.5
	12H	24.0	24.5	24.8	25.3	26.2	30.4	30.9	31.1	31.7	32.6
12H	4H	23.1	23.8	23.8	24.5	25.4	26.6	27.3	27.3	28.0	28.9
	6H	23.9	24.5	24.6	25.2	26.1	28.3	28.9	29.1	29.7	30.6
	8H	24.2	24.7	25.0	25.5	26.4	29.3	29.9	30.1	30.6	31.5

Maximum UGR = 32.6

POLAR GRAPH



Maximum Candela = 780 Located At Horizontal Angle = 130, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (130 - 310) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)