



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

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L092111802.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L092111802
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 10/3/21
[MANUFAC] Bartco Lighting, Inc.
[LUMCAT] HCB20-4-BS35-ND-R-L(F)
[LUMINAIRE] LED LUMINAIRE
[BALLASTCAT] CUSTOM
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120.00VAC
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2510
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	30.35
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.75 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2765	1787	139
55	4309	2930	143
65	6729	4776	156
75	10618	8128	190
85	17071	14227	389

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2.27	N.A.	0.10
0-30	7.03	N.A.	0.30
0-40	16.88	N.A.	0.70
0-60	67.33	N.A.	2.70
0-80	200.09	N.A.	8.00
0-90	321.58	N.A.	12.80
10-90	321.20	N.A.	12.80
20-40	14.61	N.A.	0.60
20-50	33.11	N.A.	1.30
40-70	102.37	N.A.	4.10
60-80	132.76	N.A.	5.30
70-80	80.84	N.A.	3.20
80-90	121.49	N.A.	4.80
90-110	431.63	N.A.	17.20
90-120	744.20	N.A.	29.70
90-130	1092.66	N.A.	43.50
90-150	1750.48	N.A.	69.70
90-180	2188.23	N.A.	87.20
110-180	1756.6	N.A.	70.00
0-180	2509.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.38
10-20	1.89
20-30	4.76
30-40	9.86
40-50	18.50
50-60	31.95
60-70	51.92
70-80	80.84
80-90	121.49
90-100	180.85
100-110	250.78
110-120	312.57
120-130	348.46
130-140	348.12
140-150	309.70
150-160	239.28
160-170	148.54
170-180	49.93

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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	
0	98	98	98	98	86	86	86	86	63	63	63	41	41	41	22	22	22	13
1	87	82	78	74	76	71	68	64	51	49	46	33	31	30	16	15	14	6
2	79	71	64	59	68	61	56	51	44	40	37	28	25	23	13	12	10	4
3	71	61	54	48	61	53	47	42	38	34	30	24	21	19	11	9	8	2
4	65	54	46	40	56	47	40	35	33	29	25	21	18	16	9	8	7	2
5	59	48	40	34	51	41	35	29	30	25	21	19	16	13	8	7	5	1
6	54	42	34	29	47	37	30	25	26	22	18	17	14	11	7	6	5	1
7	50	38	30	25	43	33	26	22	24	19	16	15	12	10	7	5	4	1
8	46	34	27	21	40	30	23	19	21	17	14	14	11	8	6	5	3	1
9	43	31	24	19	37	27	21	16	19	15	12	12	9	7	6	4	3	0
10	40	28	21	16	34	25	18	14	18	13	10	11	8	7	5	4	3	0

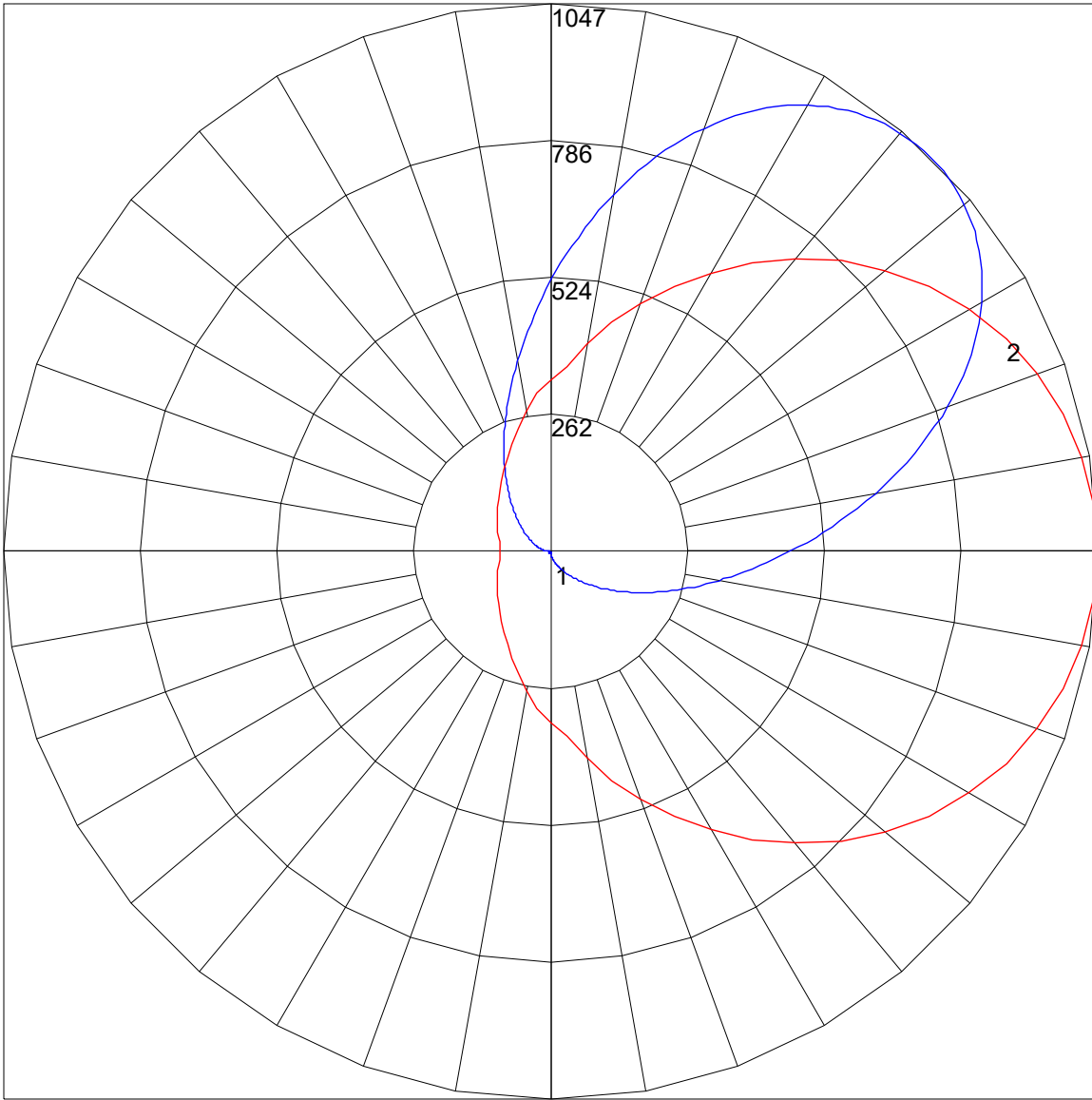
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UGR TABLE - CORRECTED

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	12.8	13.5	14.0	14.7	16.4	3.2	3.2	3.2	3.2	3.2
	3H	18.9	19.5	20.2	20.7	22.5	3.2	3.2	3.2	3.2	3.2
	4H	22.1	22.6	23.3	23.8	25.6	3.2	3.2	3.2	3.2	3.2
	6H	25.4	25.9	26.6	27.1	28.9	3.2	3.2	3.2	3.2	3.2
	8H	27.1	27.7	28.4	28.9	30.6	3.2	3.2	3.2	3.2	3.2
	12H	29.1	29.5	30.3	30.7	32.5	3.2	3.2	3.2	3.2	3.2
4H	2H	13.2	13.7	14.4	14.9	16.7	4.9	5.4	6.1	6.6	8.3
	3H	19.5	19.9	20.7	21.2	22.9	7.1	7.6	8.3	8.8	10.5
	4H	22.7	23.2	24.0	24.4	26.2	8.0	8.4	9.2	9.6	11.4
	6H	26.3	26.7	27.5	27.9	29.6	8.6	9.0	9.8	10.2	11.9
	8H	28.1	28.5	29.4	29.7	31.5	8.7	9.1	9.9	10.3	12.1
	12H	30.1	30.5	31.4	31.7	33.5	8.8	9.1	10.0	10.4	12.1
8H	4H	22.9	23.3	24.1	24.5	26.3	12.9	13.3	14.2	14.5	16.3
	6H	26.6	26.9	27.9	28.2	30.0	14.1	14.4	15.3	15.6	17.4
	8H	28.6	28.9	29.9	30.1	31.9	14.5	14.8	15.7	16.0	17.8
	12H	30.8	31.1	32.1	32.3	34.1	14.7	15.0	16.0	16.2	18.0
12H	4H	22.9	23.2	24.1	24.5	26.2	14.5	14.9	15.8	16.1	17.9
	6H	26.6	26.9	27.9	28.2	29.9	16.0	16.3	17.2	17.5	19.3
	8H	28.7	29.0	30.0	30.2	32.0	16.6	16.9	17.9	18.1	19.9

Maximum UGR = 34.1

POLAR GRAPH



Maximum Candela = 1047.466 Located At Horizontal Angle = 0, Vertical Angle = 136
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (136) (Through Max. Cd.)