



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

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L092111801.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L092111801
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 10/3/21
[MANUFAC] Bartco Lighting, Inc.
[LUMCAT] HCB20-4-BS35-ND-R-A
[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	2601
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	31
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	3043	2232	112
55	5914	3399	123
65	9153	6362	147
75	9885	9869	205
85	14711	16722	544

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2.32	N.A.	0.10
0-30	7.71	N.A.	0.30
0-40	19.26	N.A.	0.70
0-60	81.30	N.A.	3.10
0-80	237.69	N.A.	9.10
0-90	366.89	N.A.	14.10
10-90	366.55	N.A.	14.10
20-40	16.94	N.A.	0.70
20-50	38.39	N.A.	1.50
40-70	130.98	N.A.	5.00
60-80	156.39	N.A.	6.00
70-80	87.45	N.A.	3.40
80-90	129.20	N.A.	5.00
90-110	679.96	N.A.	26.10
90-120	1122.62	N.A.	43.20
90-130	1427.99	N.A.	54.90
90-150	1913.06	N.A.	73.60
90-180	2233.62	N.A.	85.90
110-180	1553.66	N.A.	59.70
0-180	2600.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.34
10-20	1.98
20-30	5.38
30-40	11.56
40-50	21.45
50-60	40.58
60-70	68.94
70-80	87.45
80-90	129.20
90-100	232.19
100-110	447.77
110-120	442.66
120-130	305.37
130-140	260.31
140-150	224.76
150-160	173.95
160-170	107.54
170-180	39.07

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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	99	99	99	99	86	86	86	86	63	63	63	42	42	42	23	23	23	14
1	87	82	78	74	76	72	68	64	52	49	47	33	32	30	17	16	15	7
2	79	71	64	58	68	61	56	51	44	40	37	28	26	24	14	12	11	4
3	71	61	54	48	62	53	47	42	38	34	30	24	22	19	11	10	8	3
4	65	54	46	40	56	47	40	35	34	29	25	21	18	16	10	8	7	2
5	59	48	39	33	51	41	34	29	30	25	21	19	16	13	9	7	6	1
6	54	42	34	28	47	37	30	25	26	22	18	17	14	11	8	6	5	1
7	50	38	30	24	43	33	26	21	24	19	16	15	12	10	7	5	4	1
8	46	34	26	21	40	30	23	19	21	17	13	14	11	8	6	5	3	1
9	43	31	23	19	37	27	21	16	19	15	12	12	9	7	6	4	3	1
10	40	28	21	16	34	24	18	14	18	13	10	11	9	6	5	4	3	0

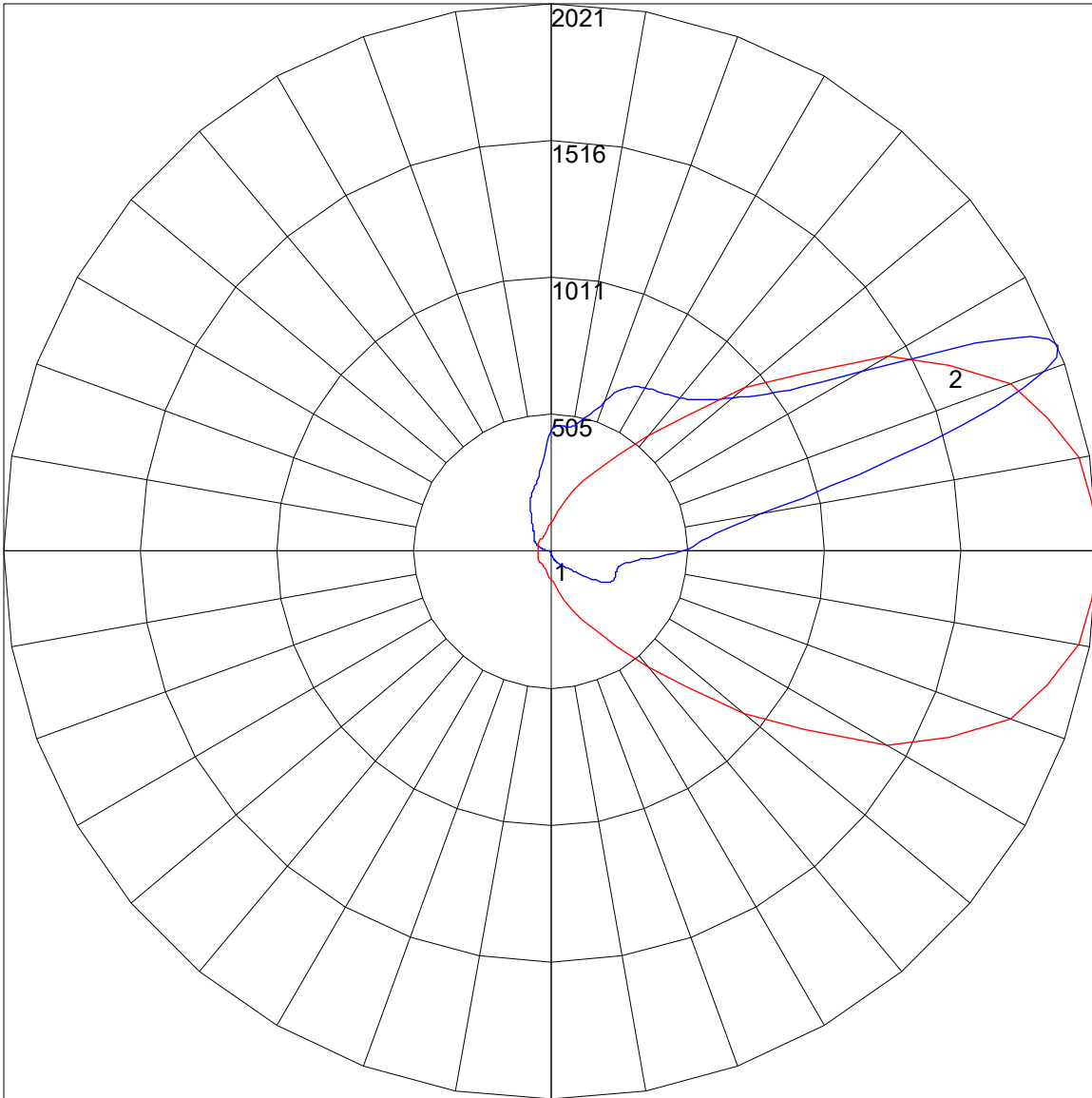
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UGR TABLE - CORRECTED

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	15.2	15.9	16.4	17.1	18.8	3.3	3.3	3.3	3.3	3.3
	3H	20.4	21.0	21.6	22.2	23.9	3.3	3.3	3.3	3.3	3.3
	4H	22.5	23.1	23.7	24.3	26.0	3.3	3.3	3.3	3.3	3.3
	6H	24.9	25.4	26.1	26.6	28.4	3.3	3.3	3.3	3.3	3.3
	8H	26.3	26.8	27.6	28.1	29.8	3.3	3.3	3.3	3.3	3.3
	12H	28.1	28.6	29.4	29.8	31.6	3.3	3.3	3.3	3.3	3.3
4H	2H	15.5	16.0	16.7	17.2	18.9	6.6	7.2	7.8	8.4	10.1
	3H	21.0	21.5	22.2	22.7	24.4	8.6	9.1	9.8	10.3	12.0
	4H	23.3	23.7	24.5	24.9	26.7	9.4	9.8	10.6	11.1	12.8
	6H	25.8	26.2	27.0	27.4	29.2	9.9	10.3	11.1	11.5	13.3
	8H	27.4	27.7	28.6	29.0	30.7	10.0	10.4	11.2	11.6	13.4
	12H	29.3	29.6	30.5	30.8	32.6	10.1	10.4	11.3	11.6	13.4
8H	4H	23.5	23.8	24.7	25.0	26.8	14.0	14.4	15.2	15.6	17.4
	6H	26.2	26.5	27.5	27.8	29.5	15.2	15.6	16.5	16.8	18.6
	8H	27.9	28.2	29.2	29.4	31.2	15.7	16.0	17.0	17.2	19.0
	12H	30.0	30.3	31.3	31.5	33.3	16.0	16.2	17.2	17.5	19.2
12H	4H	23.4	23.8	24.7	25.0	26.8	15.2	15.5	16.4	16.7	18.5
	6H	26.3	26.6	27.5	27.8	29.6	16.8	17.1	18.0	18.3	20.1
	8H	28.1	28.3	29.3	29.5	31.3	17.6	17.8	18.8	19.1	20.8

Maximum UGR = 33.3

POLAR GRAPH



Maximum Candela = 2021.333 Located At Horizontal Angle = 0, Vertical Angle = 112
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (112) (Through Max. Cd.)