



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

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122112403.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L122112403
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 1/7/2022
[MANUFAC] BARTCO LIGHTING, INC.
[LUMCAT] HCB12-4-BS35-ND-1-NA-R-NA-A-C4-SN-AW
[LUMINAIRE] Swell 2" x 3-1/2" Direct/Indirect Luminaire, 44-5/8" O.A., BIOS Static 3500K, Non-Dimming Driver, Single Circuit, NA
[BALLASTCAT] CUSTOM
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120 VAC
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2520
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	30.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.73 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13383	13599	13791
55	12537	12803	13039
65	11758	12039	12279
75	11074	11401	11664
85	11481	12064	12843

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	338.75	N.A.	13.40
0-30	710.20	N.A.	28.20
0-40	1144.83	N.A.	45.40
0-60	1970.08	N.A.	78.20
0-80	2453.42	N.A.	97.40
0-90	2519.72	N.A.	100.00
10-90	2431.48	N.A.	96.50
20-40	806.08	N.A.	32.00
20-50	1243.71	N.A.	49.40
40-70	1123.23	N.A.	44.60
60-80	483.34	N.A.	19.20
70-80	185.36	N.A.	7.40
80-90	66.30	N.A.	2.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2519.72	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.24
10-20	250.51
20-30	371.45
30-40	434.63
40-50	437.63
50-60	387.62
60-70	297.98
70-80	185.36
80-90	66.30
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

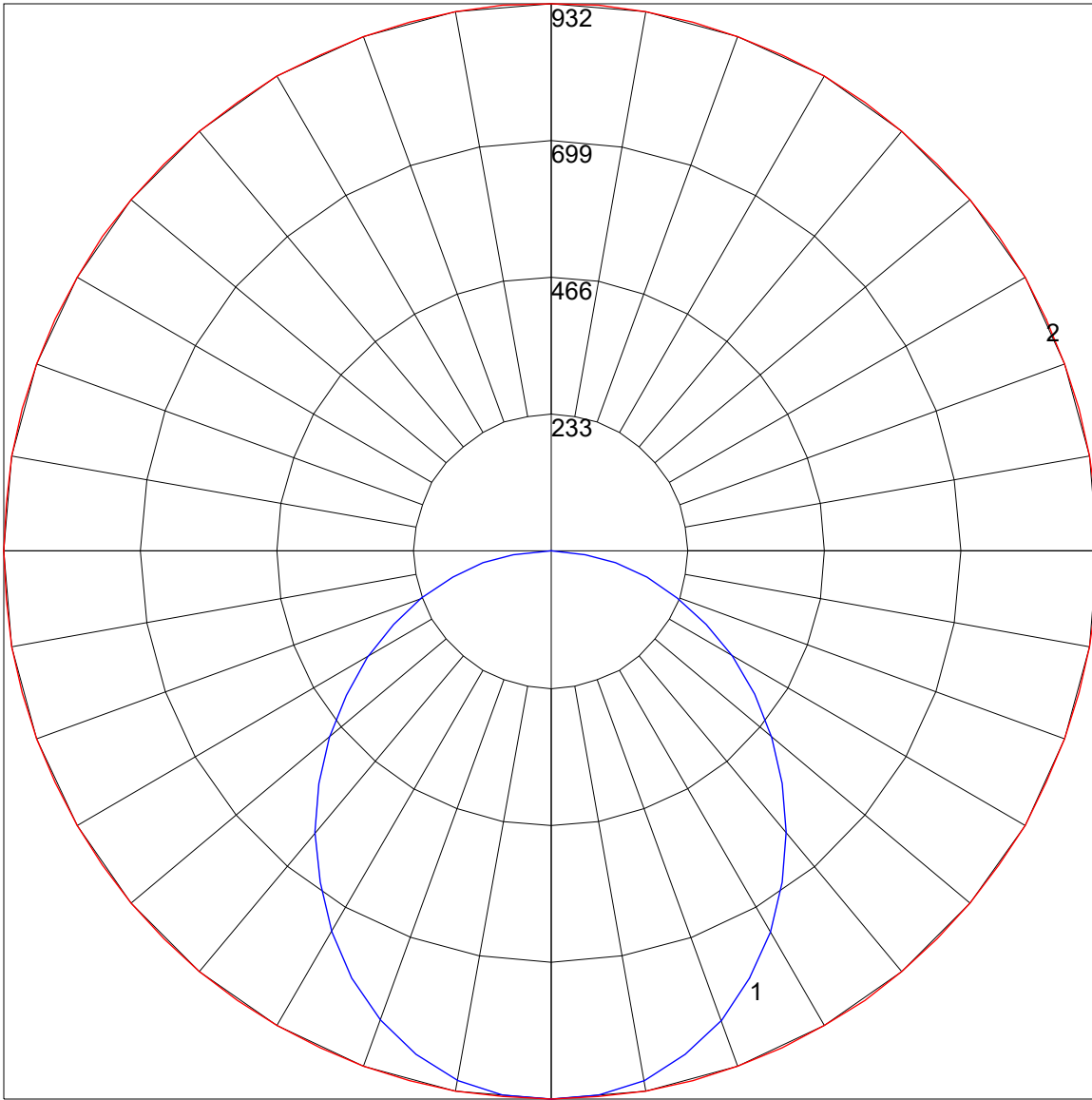
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UGR TABLE - CORRECTED

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	22.3	21.1	22.7	23.0	20.9	22.6	21.3	22.9	23.2
	3H	22.6	24.1	22.9	24.4	24.7	22.8	24.3	23.2	24.6	25.0
	4H	23.3	24.7	23.7	25.1	25.5	23.6	25.0	24.0	25.3	25.7
	6H	24.0	25.3	24.4	25.6	26.0	24.3	25.5	24.7	25.9	26.3
	8H	24.2	25.4	24.6	25.8	26.2	24.5	25.7	24.9	26.1	26.5
	12H	24.4	25.6	24.8	26.0	26.4	24.7	25.9	25.2	26.3	26.7
4H	2H	21.4	22.8	21.8	23.1	23.5	21.6	23.0	22.0	23.3	23.7
	3H	23.5	24.7	23.9	25.1	25.5	23.7	24.9	24.1	25.3	25.7
	4H	24.4	25.4	24.8	25.9	26.3	24.6	25.7	25.0	26.1	26.5
	6H	25.2	26.1	25.6	26.5	27.0	25.4	26.3	25.9	26.8	27.2
	8H	25.5	26.3	25.9	26.8	27.3	25.7	26.6	26.2	27.1	27.5
	12H	25.7	26.5	26.2	27.0	27.5	26.0	26.8	26.5	27.3	27.8
8H	4H	24.8	25.6	25.2	26.1	26.5	25.0	25.8	25.4	26.3	26.7
	6H	25.7	26.4	26.2	26.9	27.4	25.9	26.7	26.4	27.1	27.6
	8H	26.1	26.8	26.6	27.3	27.7	26.4	27.0	26.9	27.5	28.0
	12H	26.5	27.1	27.0	27.6	28.1	26.8	27.4	27.3	27.8	28.4
12H	4H	24.8	25.6	25.3	26.1	26.6	25.0	25.8	25.5	26.3	26.7
	6H	25.8	26.5	26.3	26.9	27.5	26.0	26.7	26.5	27.1	27.7
	8H	26.3	26.9	26.8	27.3	27.9	26.5	27.1	27.0	27.6	28.2

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 932 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)