



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

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L011803201.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011803201
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 1/18/2018
[MANUFAC] Bartco Lighting
[LUMCAT] SK21-QC-4-35-F-120
[LUMINAIRE] 4' LED LAMP
[BALLASTCAT] N/A
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 13.31W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	951
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	13.31
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.69 ft
Luminous Width (90-270)	0.06 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13757	9531	8658
55	13281	8273	7421
65	12357	6784	6116
75	10305	5039	4758
85	5147	3269	3409

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	293.95	293.95	293.95	293.95	293.95
5	292.04	292.29	292.62	293.12	293.87
10	289.13	288.93	289.30	289.51	290.13
15	283.07	282.86	283.74	284.11	284.82
20	274.27	274.19	275.10	276.76	277.68
25	263.89	265.01	265.14	267.17	267.88
30	251.35	252.06	253.30	254.96	255.75
35	236.90	237.73	239.40	240.97	242.72
40	220.80	221.42	223.33	225.11	227.19
45	202.44	203.19	205.23	208.21	210.08
50	181.02	182.52	185.50	189.66	191.48
55	159.26	160.26	164.54	169.19	171.06
60	135.60	137.22	142.41	147.85	151.21
65	110.02	112.47	119.66	126.38	129.29
70	82.79	87.31	96.78	105.29	108.11
75	57.13	62.44	74.86	85.03	88.43
80	31.80	39.48	54.89	65.89	70.08
85	10.38	21.17	37.99	49.16	52.73
90	0.50	9.84	24.83	35.75	38.94
95	0.25	3.90	15.11	24.95	27.82
100	0.00	1.70	9.22	16.77	19.18
105	0.00	0.96	5.52	11.09	12.87
110	0.00	0.79	3.41	7.27	8.55
115	0.00	0.75	2.20	4.73	5.73
120	0.00	0.00	1.62	3.24	3.82
125	0.00	0.00	1.41	2.33	2.66
130	0.00	0.00	1.25	1.83	2.08
135	0.00	0.00	1.16	1.54	1.66
140	0.00	0.00	1.16	1.41	1.58
145	0.00	0.00	1.12	1.33	1.41
150	0.00	0.00	0.00	1.25	1.33
155	0.00	0.00	0.00	0.00	1.25
160	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	107.91	N.A.	11.30
0-30	230.40	N.A.	24.20
0-40	380.23	N.A.	40.00
0-60	686.19	N.A.	72.20
0-80	882.88	N.A.	92.80
0-90	922.47	N.A.	97.00
10-90	894.63	N.A.	94.10
20-40	272.31	N.A.	28.60
20-50	430.93	N.A.	45.30
40-70	424.35	N.A.	44.60
60-80	196.69	N.A.	20.70
70-80	78.30	N.A.	8.20
80-90	39.59	N.A.	4.20
90-110	23.31	N.A.	2.50
90-120	26.03	N.A.	2.70
90-130	27.21	N.A.	2.90
90-150	28.37	N.A.	3.00
90-180	28.47	N.A.	3.00
110-180	5.16	N.A.	0.50
0-180	950.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.84
10-20	80.07
20-30	122.49
30-40	149.83
40-50	158.62
50-60	147.35
60-70	118.39
70-80	78.30
80-90	39.59
90-100	16.61
100-110	6.70
110-120	2.72
120-130	1.18
130-140	0.71
140-150	0.46
150-160	0.10
160-170	0.00
170-180	0.00

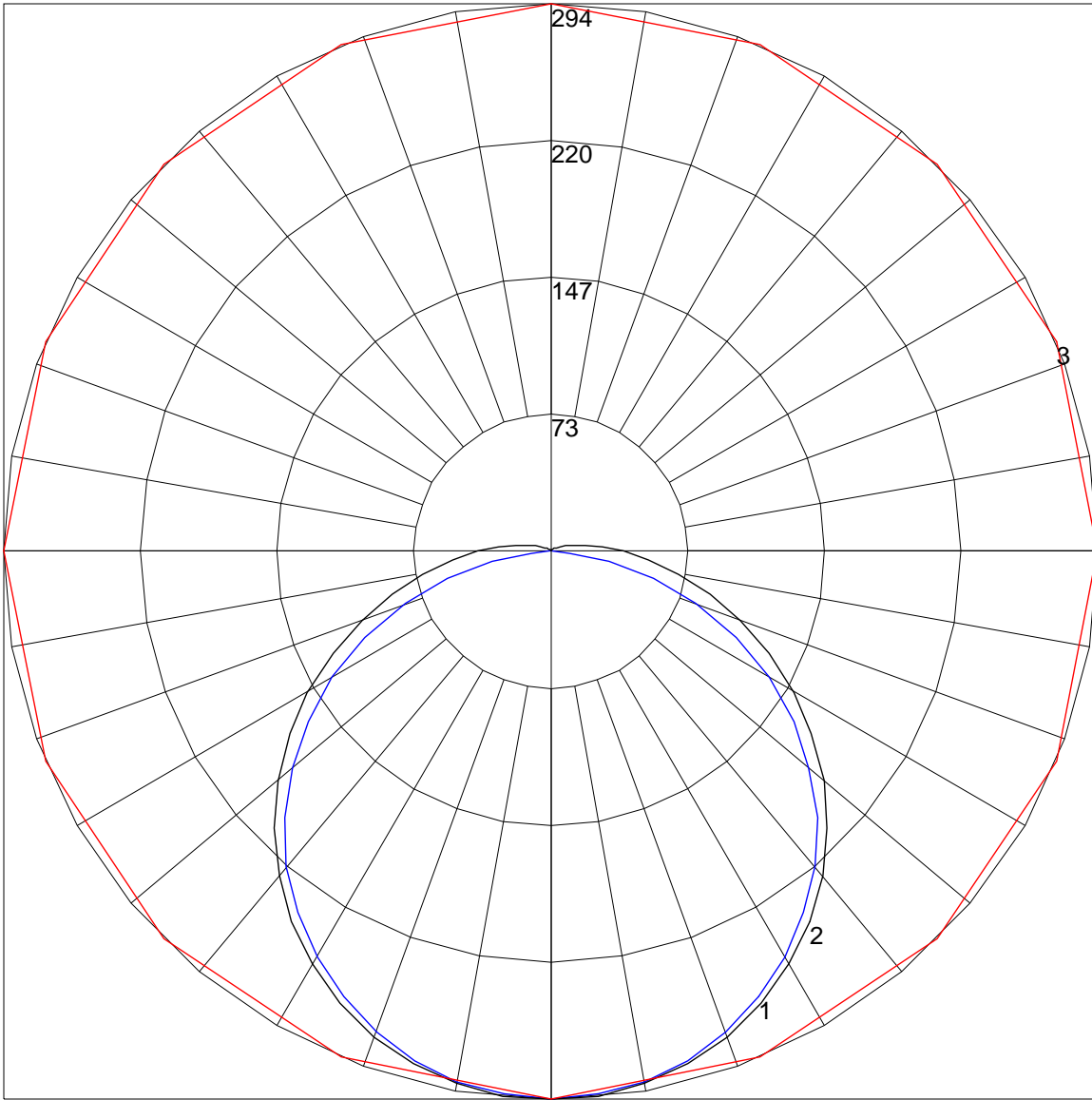
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	101	97	92		104	99	95	91	94	90	87	90	87	84	85	83	81	79
2	97	88	80	74		94	86	79	73	81	76	71	78	73	69	74	70	67	64
3	88	77	68	61		85	75	67	60	71	65	59	68	62	58	65	60	56	54
4	80	68	58	51		78	66	58	51	63	56	50	60	54	49	58	52	48	46
5	74	60	51	44		71	59	50	44	56	49	43	54	47	42	52	46	41	39
6	68	54	45	38		66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34		61	48	40	33	46	39	33	44	38	33	43	37	32	30
8	58	45	36	30		57	44	36	30	42	35	29	41	34	29	39	33	29	27
9	55	41	33	27		53	40	32	27	39	32	26	37	31	26	36	30	26	24
10	51	38	30	24		50	37	29	24	36	29	24	35	28	24	34	28	23	22

POLAR GRAPH



Maximum Candela = 293.95 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.)