

## Photometric Test Report

### IES INDOOR REPORT

PHOTOMETRIC FILENAME : L112111801.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L112111801  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUEDATE] 11/17/2021  
 [MANUFAC] BARTCO LIGHTNIG INC  
 [LUMCAT] BSS222-48-SM-35-ND-R-A-SN-AW  
 [LUMINAIRE] Bodhi 1" x 2-1/4" Luminaire, 48" Straight Shape, Surface Mount, 3500K, Remote 120-277V Non-dimming Driver, Re  
 [BALLASTCAT] ACE ELECTRONICS AC-A60V24H5.5  
 [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	2727
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	29.71
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.19 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12367	12347	12287
55	11891	11891	11866
65	11417	11317	11283
75	10934	10825	10770
85	11527	11527	11689

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	346.40	N.A.	12.70
0-30	733.57	N.A.	26.90
0-40	1196.54	N.A.	43.90
0-60	2103.91	N.A.	77.10
0-80	2651.87	N.A.	97.20
0-90	2727.14	N.A.	100.00
10-90	2637.51	N.A.	96.70
20-40	850.14	N.A.	31.20
20-50	1326.53	N.A.	48.60
40-70	1244.01	N.A.	45.60
60-80	547.96	N.A.	20.10
70-80	211.32	N.A.	7.70
80-90	75.27	N.A.	2.80
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	2727.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	89.63
10-20	256.77
20-30	387.17
30-40	462.97
40-50	476.38
50-60	430.98
60-70	336.64
70-80	211.32
80-90	75.27
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	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

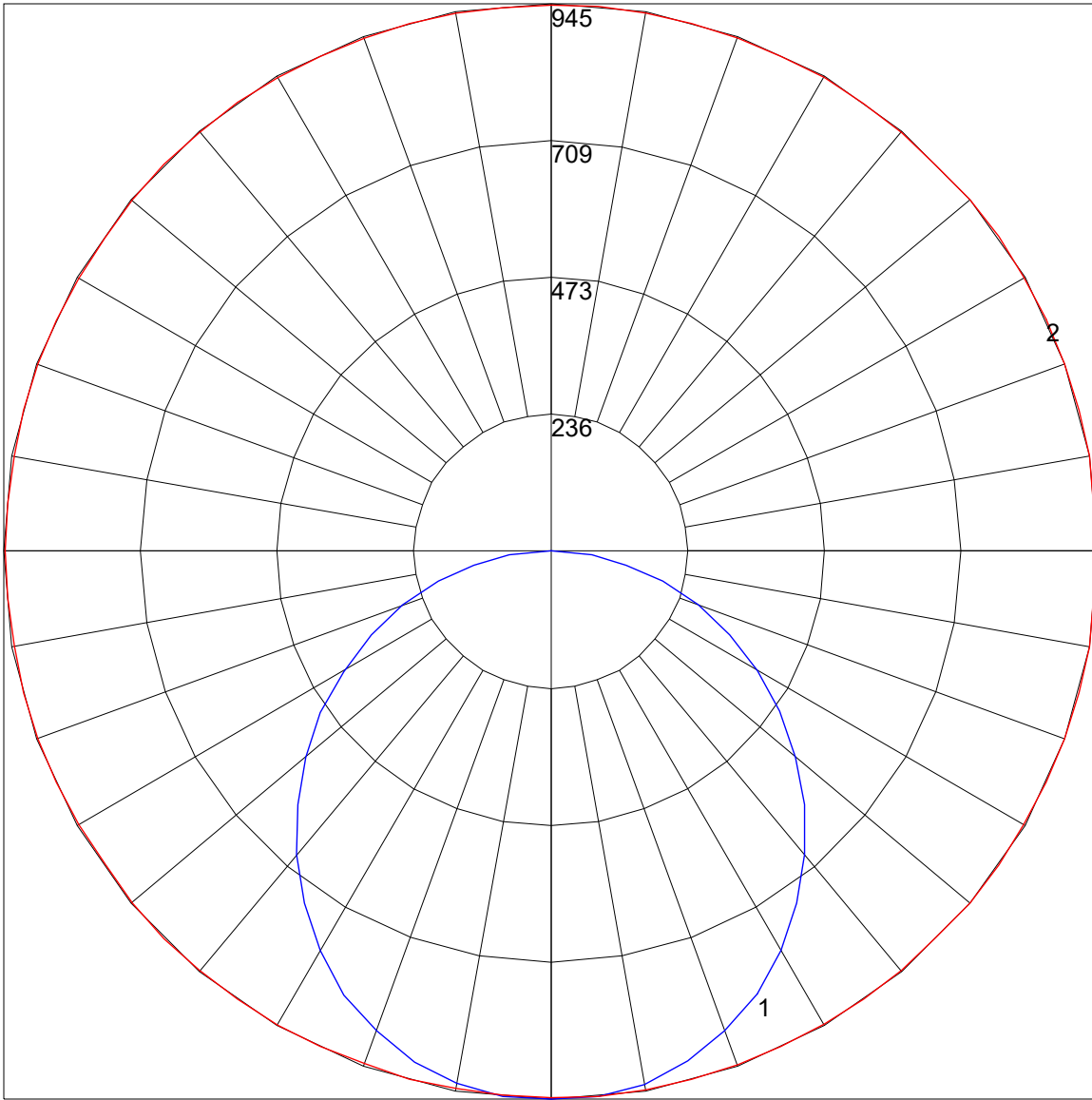
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**UGR TABLE - CORRECTED**

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	22.4	21.1	22.7	23.0	20.7	22.3	21.0	22.6	23.0
	3H	22.7	24.2	23.0	24.5	24.8	22.6	24.1	23.0	24.4	24.8
	4H	23.4	24.9	23.8	25.2	25.6	23.4	24.8	23.8	25.2	25.5
	6H	24.1	25.4	24.5	25.8	26.2	24.1	25.4	24.5	25.7	26.1
	8H	24.4	25.6	24.8	26.0	26.4	24.3	25.6	24.7	26.0	26.4
	12H	24.6	25.8	25.0	26.2	26.6	24.5	25.7	25.0	26.1	26.6
4H	2H	21.4	22.8	21.8	23.1	23.5	21.3	22.8	21.7	23.1	23.5
	3H	23.6	24.7	24.0	25.1	25.5	23.5	24.7	23.9	25.1	25.5
	4H	24.5	25.6	24.9	26.0	26.4	24.5	25.5	24.9	25.9	26.4
	6H	25.3	26.3	25.8	26.7	27.1	25.3	26.2	25.7	26.6	27.1
	8H	25.6	26.5	26.1	27.0	27.4	25.6	26.5	26.0	26.9	27.4
	12H	25.9	26.7	26.4	27.2	27.7	25.9	26.7	26.3	27.1	27.6
8H	4H	24.9	25.8	25.3	26.2	26.7	24.8	25.7	25.3	26.2	26.6
	6H	25.8	26.6	26.3	27.1	27.5	25.8	26.5	26.3	27.0	27.5
	8H	26.3	26.9	26.8	27.4	27.9	26.2	26.9	26.7	27.4	27.9
	12H	26.6	27.2	27.1	27.7	28.3	26.6	27.2	27.1	27.7	28.3
12H	4H	24.9	25.7	25.4	26.2	26.7	24.9	25.7	25.4	26.2	26.6
	6H	26.0	26.6	26.5	27.1	27.6	25.9	26.6	26.4	27.0	27.6
	8H	26.4	27.0	26.9	27.5	28.1	26.4	27.0	26.9	27.5	28.0

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 945 Located At Horizontal Angle = 20, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)