

## Photometric Test Report

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : L052412102.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L052412102  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUEDATE] 8/26/2024  
 [MANUFAC] Bartco Lighting, Inc.  
 [LUMCAT] HL2-Y-8-4-DB-1-WN-35-ND-2-NA-RA-C4-08  
 [LUMINAIRE] Chill Acoustic Luminaire, 2" Aperture, Y-Shape, 8"H Panels,  
 [MORE] 48"D, Drop Beveled Edge, Extended Panels, Walnut End Cap, 3500K,  
 [MORE] 120-277V Non-Dimming Driver, Two Circuit, NA Indirect, Reg.  
 [MORE] Output Flush Lens Direct, 4' Cable Mount, Light Sand Finish  
 [BALLASTCAT] ADVANCE XI040C110V054BST2  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [INPUT] 120VAC  
 [TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2896
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	33.13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 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	15275	15410	15902
55	12986	13179	13924
65	10216	10365	11114
75	6843	6416	6660
85	6169	3085	3085

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	445.57	N.A.	15.40
0-30	928.41	N.A.	32.10
0-40	1483.91	N.A.	51.20
0-60	2460.48	N.A.	85.00
0-80	2868.71	N.A.	99.10
0-90	2895.5	N.A.	100.00
10-90	2778.83	N.A.	96.00
20-40	1038.34	N.A.	35.90
20-50	1576.73	N.A.	54.50
40-70	1261.07	N.A.	43.60
60-80	408.23	N.A.	14.10
70-80	123.73	N.A.	4.30
80-90	26.79	N.A.	0.90
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	2895.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	116.67
10-20	328.90
20-30	482.84
30-40	555.50
40-50	538.39
50-60	438.19
60-70	284.49
70-80	123.73
80-90	26.79
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54	
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48	
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37	
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34	
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28	

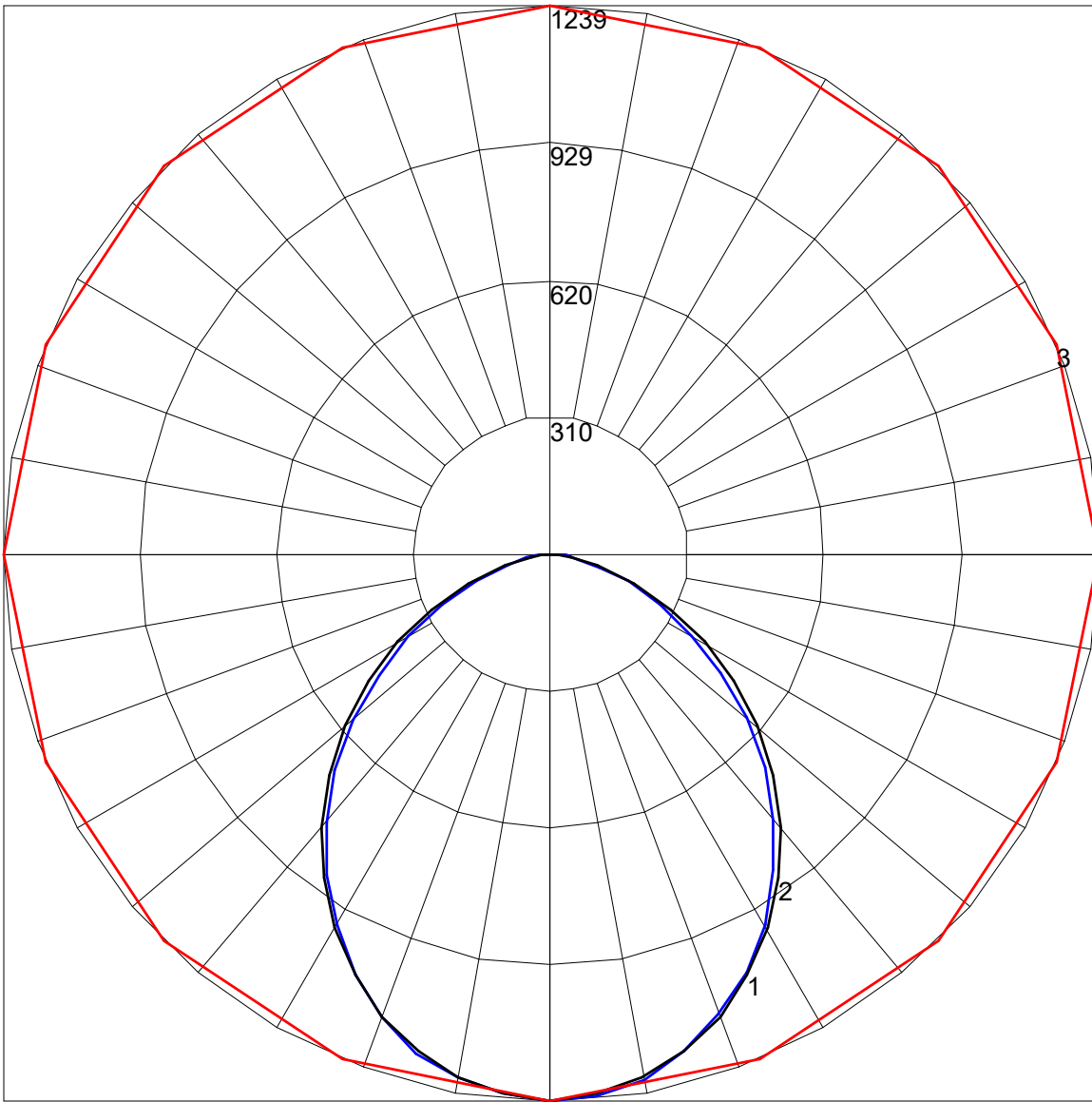
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**UGR TABLE - CORRECTED**

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	22.2	21.0	22.5	22.9	20.9	22.5	21.3	22.8	23.1
	3H	21.9	23.3	22.3	23.6	24.0	22.2	23.6	22.6	23.9	24.3
	4H	22.3	23.6	22.7	23.9	24.3	22.6	23.9	23.0	24.2	24.6
	6H	22.5	23.7	22.9	24.1	24.5	22.7	23.9	23.1	24.3	24.7
	8H	22.6	23.7	23.0	24.1	24.5	22.7	23.9	23.1	24.3	24.7
	12H	22.7	23.8	23.1	24.1	24.6	22.7	23.8	23.2	24.2	24.6
4H	2H	21.2	22.5	21.6	22.8	23.2	21.4	22.7	21.8	23.1	23.4
	3H	22.6	23.6	23.0	24.0	24.4	22.9	23.9	23.3	24.3	24.7
	4H	23.0	24.0	23.4	24.4	24.8	23.3	24.2	23.7	24.7	25.1
	6H	23.3	24.1	23.8	24.6	25.1	23.5	24.4	24.0	24.8	25.3
	8H	23.4	24.2	23.9	24.6	25.1	23.6	24.4	24.0	24.8	25.3
	12H	23.5	24.2	24.0	24.7	25.2	23.6	24.3	24.1	24.8	25.3
8H	4H	23.1	23.9	23.6	24.4	24.8	23.4	24.2	23.9	24.6	25.1
	6H	23.5	24.1	24.0	24.6	25.1	23.7	24.4	24.2	24.9	25.4
	8H	23.6	24.2	24.1	24.7	25.2	23.9	24.4	24.4	24.9	25.4
	12H	23.7	24.3	24.2	24.7	25.3	23.9	24.4	24.4	24.9	25.5
12H	4H	23.1	23.8	23.6	24.3	24.8	23.4	24.1	23.9	24.6	25.1
	6H	23.5	24.1	24.0	24.5	25.1	23.8	24.3	24.3	24.8	25.3
	8H	23.6	24.1	24.1	24.6	25.2	23.9	24.4	24.4	24.9	25.5

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 1239 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.)