



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

# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L032210802.IES**

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L032210802  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 5/2/2022  
[MANUFAC] Bartco Lighting, Inc.  
[LUMCAT] RAD10-4-35-120-ND-L-A-C4-SN-AW  
[LUMINAIRE] 1-1/4 Wide Extruded Aluminum Housing LED Fixture  
[BALLASTCAT] CUSTOM DRIVER  
[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	1644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	13.03
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.08 ft
Luminous Height	0.06 ft

## LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10723	8451	8147
55	11415	7602	7355
65	11556	6847	6646
75	10697	5764	5947
85	11849	4885	5317

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	146.98	N.A.	8.90
0-30	310.90	N.A.	18.90
0-40	508.34	N.A.	30.90
0-60	922.32	N.A.	56.10
0-80	1244.05	N.A.	75.70
0-90	1341.45	N.A.	81.60
10-90	1303.32	N.A.	79.30
20-40	361.37	N.A.	22.00
20-50	570.68	N.A.	34.70
40-70	595.43	N.A.	36.20
60-80	321.74	N.A.	19.60
70-80	140.28	N.A.	8.50
80-90	97.39	N.A.	5.90
90-110	145.01	N.A.	8.80
90-120	203.68	N.A.	12.40
90-130	247.05	N.A.	15.00
90-150	290.80	N.A.	17.70
90-180	302.81	N.A.	18.40
110-180	157.80	N.A.	9.60
0-180	1644.26	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.12
10-20	108.85
20-30	163.93
30-40	197.44
40-50	209.32
50-60	204.66
60-70	181.46
70-80	140.28
80-90	97.39
90-100	76.21
100-110	68.80
110-120	58.67
120-130	43.37
130-140	27.24
140-150	16.51
150-160	8.97
160-170	3.04
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	115	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	102	97	92	87	87	98	93	88	84	85	81	78	78	75	72	71	69	67	64
2	92	83	76	69	69	88	80	73	67	73	67	63	67	62	58	61	58	55	51
3	84	72	64	57	57	79	69	61	55	64	57	52	58	53	48	54	49	45	42
4	76	64	55	47	47	72	61	53	46	56	49	44	52	46	41	48	43	39	36
5	70	57	47	40	40	66	54	46	39	50	43	37	46	40	35	43	37	33	31
6	64	51	42	35	35	61	49	40	34	45	38	32	42	35	31	39	33	29	27
7	60	46	37	31	31	57	44	36	30	41	34	29	38	32	27	35	30	26	23
8	55	42	33	27	27	53	40	32	27	37	30	25	35	29	24	32	27	23	21
9	52	38	30	24	24	49	37	29	24	34	28	23	32	26	22	30	24	21	19
10	48	35	27	22	22	46	34	27	21	32	25	21	30	24	20	28	22	19	17

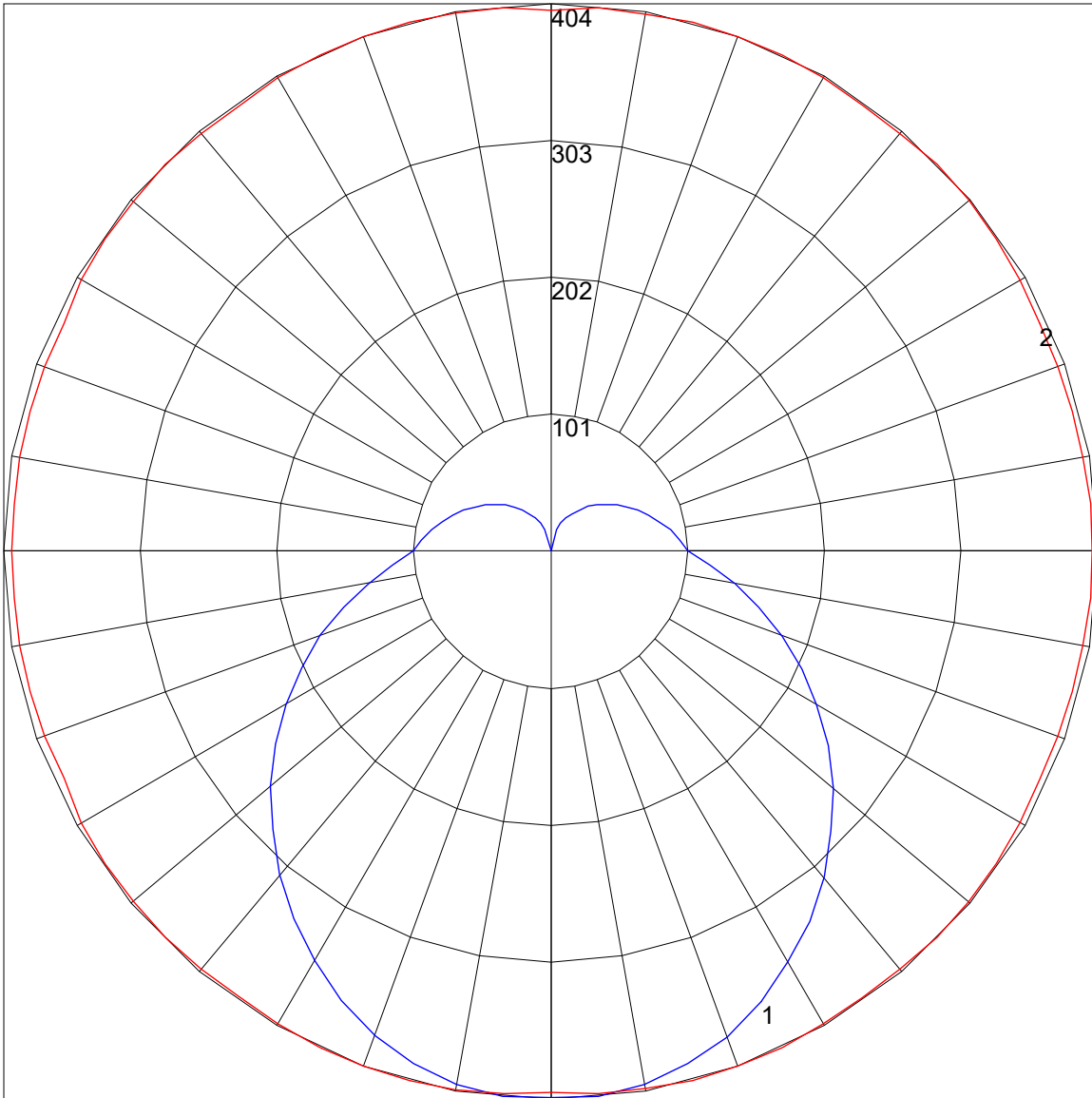
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**UGR TABLE - CORRECTED**

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	16.5	17.9	17.1	18.5	19.2	19.4	20.8	20.0	21.4	22.1
	3H	18.2	19.4	18.8	20.1	20.8	22.1	23.4	22.8	24.0	24.8
	4H	18.7	19.9	19.4	20.6	21.3	23.5	24.7	24.1	25.3	26.1
	6H	19.1	20.2	19.7	20.8	21.6	24.9	26.0	25.6	26.7	27.4
	8H	19.2	20.2	19.9	20.9	21.7	25.6	26.7	26.3	27.4	28.2
	12H	19.3	20.3	19.9	21.0	21.8	26.5	27.5	27.1	28.1	29.0
4H	2H	17.5	18.7	18.2	19.3	20.1	19.7	20.9	20.4	21.6	22.3
	3H	19.4	20.4	20.1	21.1	21.9	22.6	23.7	23.3	24.3	25.1
	4H	20.1	21.0	20.7	21.7	22.5	24.1	25.1	24.8	25.8	26.6
	6H	20.6	21.4	21.3	22.1	22.9	25.7	26.5	26.4	27.3	28.1
	8H	20.7	21.5	21.4	22.2	23.0	26.6	27.3	27.3	28.1	28.9
	12H	20.8	21.5	21.6	22.3	23.1	27.5	28.2	28.2	29.0	29.8
8H	4H	20.8	21.5	21.5	22.2	23.1	24.3	25.0	25.0	25.8	26.6
	6H	21.4	22.1	22.2	22.8	23.7	26.0	26.7	26.7	27.4	28.3
	8H	21.7	22.3	22.4	23.0	23.9	27.0	27.6	27.7	28.3	29.2
	12H	21.9	22.4	22.6	23.2	24.1	28.1	28.6	28.8	29.4	30.3
12H	4H	21.0	21.7	21.7	22.4	23.3	24.3	25.0	25.0	25.7	26.6
	6H	21.7	22.3	22.5	23.1	24.0	26.0	26.6	26.8	27.4	28.3
	8H	22.1	22.6	22.8	23.4	24.3	27.0	27.6	27.8	28.3	29.2

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 404 Located At Horizontal Angle = 65, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (65 - 245) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)