

# Photometric Test Report

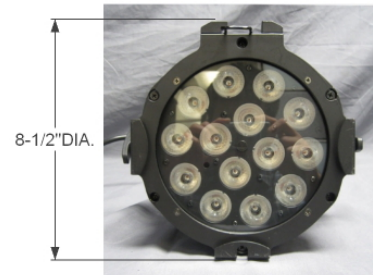
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L04130405.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L04130405  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 05/02/2013  
[MANUFAC] ELATION LIGHTING  
[LUMCAT] EPAR QA  
[LUMINAIRE] 11"H. X 8-1/2"DIA. LED FIXTURE  
[MORE] CLEAR LENS  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_INPUT] 110VAC, 53.57W  
[\_TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1090
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	20
Total Luminaire Watts	53.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.24
Spacing Criterion (90-270)	0.24
Spacing Criterion (Diagonal)	0.28
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.52 ft (Diameter)
Luminous Width (90-270)	0.52 ft (Diameter)
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2435	2435	2435
55	1854	1854	1854
65	1438	1438	1438
75	1761	1761	1761
85	4067	4067	4067

CANDELA TABULATION

	<u>0</u>
0.0	10291
1.0	10006
3.0	8626
5.0	6707
7.0	4902
9.0	3499
11.0	2456
13.0	1662
15.0	1079
17.0	710
19.5	476
22.5	334
25.5	229
29.0	141
33.0	83
37.5	53
42.5	37
47.5	31
55.0	21
65.0	12
75.0	9
85.0	7
90.0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	844.55	N.A.	77.50
0-30	962.47	N.A.	88.30
0-40	1007.13	N.A.	92.40
0-60	1052.82	N.A.	96.60
0-80	1079.28	N.A.	99.00
0-90	1089.83	N.A.	100.00
10-90	630.25	N.A.	57.80
20-40	162.57	N.A.	14.90
20-50	191.61	N.A.	17.60
40-70	61.35	N.A.	5.60
60-80	26.46	N.A.	2.40
70-80	10.81	N.A.	1.00
80-90	10.55	N.A.	1.00
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	1089.83	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	459.58
10-20	384.98
20-30	117.91
30-40	44.66
40-50	29.03
50-60	16.67
60-70	15.65
70-80	10.81
80-90	10.55
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

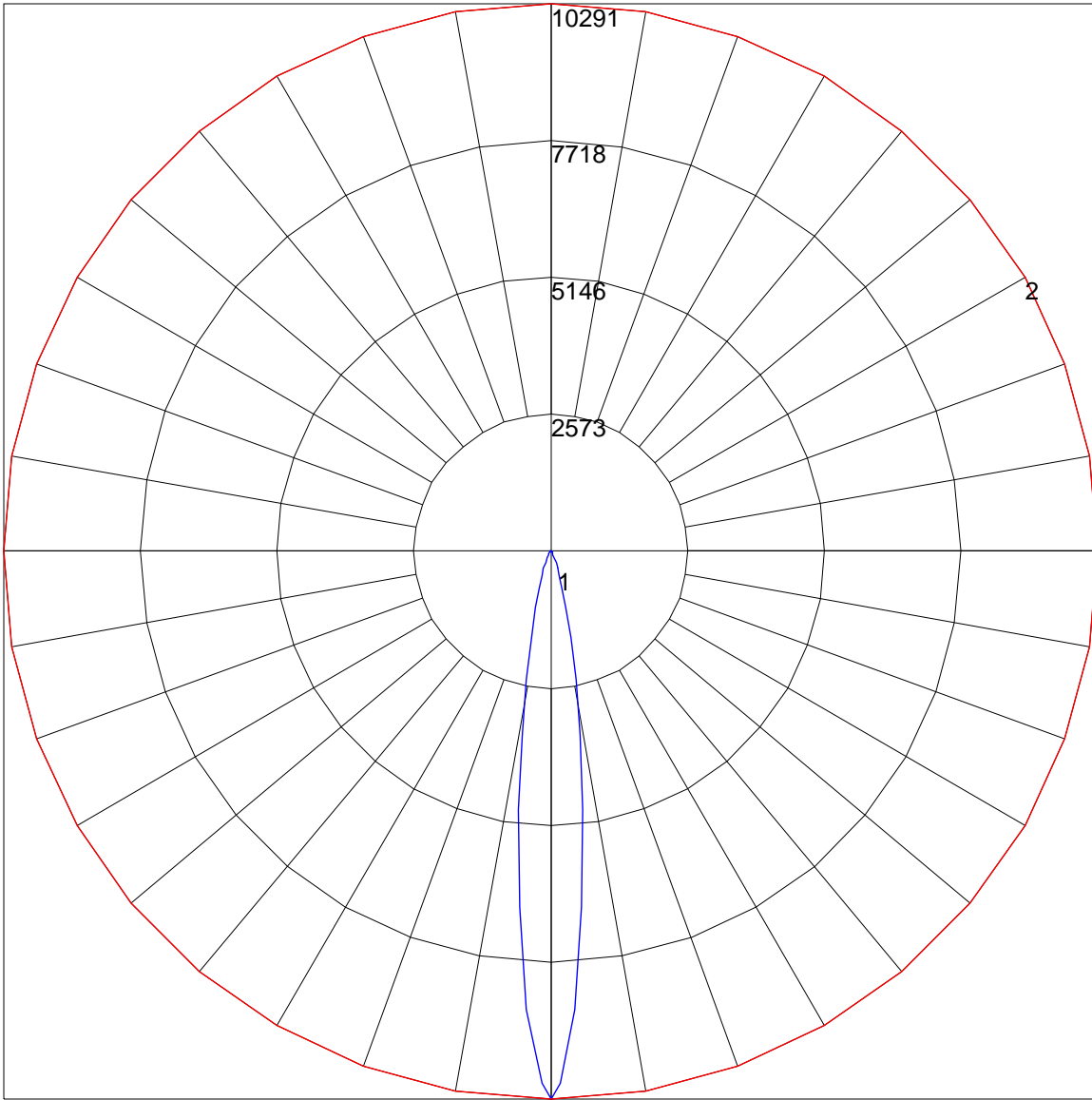
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	
3	106	101	97	94	105	100	96	93	97	94	92	95	93	91	93	91	89	88	
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	91	88	86	85	
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82	
6	97	90	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	80	
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78	
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76	
9	90	83	79	76	89	82	78	76	82	78	76	81	78	75	80	77	75	74	
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	73	72	

POLAR GRAPH



Maximum Candela = 10291 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.)