



Photometric Indoor Test Report

Relevant Standards

IES LM-79-2008

ANSI C82.77

Prepared For
Eureka Lighting, Inc.

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Catalog Number
POINT 2044 / 4044

LTL Test Number
28159

Test Date

2012-02-03

Prepared By

Eric Gaudreau, Technician III

Approved By

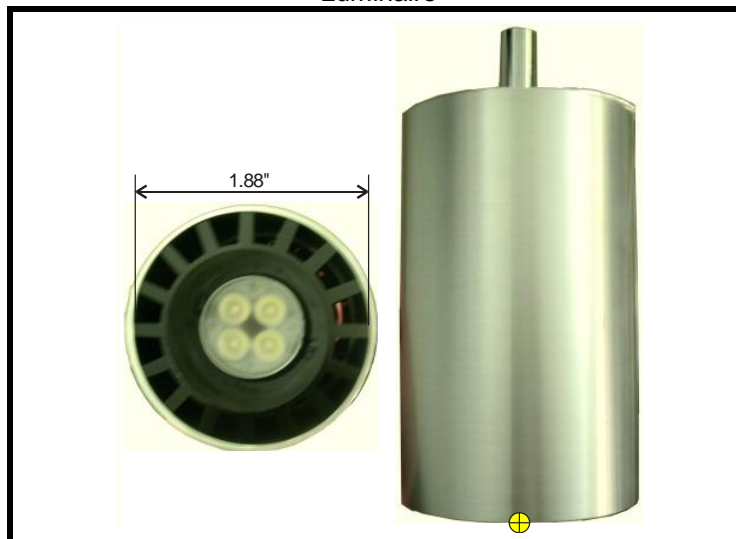
Zachary Mooney, Project Coordinator III

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Spun aluminum housing, machined black enamel aluminum lower reflector, frosted plastic optic / enclosure
Catalog Number: POINT 2044 / 4044
Lamp: Four white LEDs
Mounting: Pendant
Ballast/Driver: One Lightech LED 36 CC 700 PU

Luminaire



Zonal Lumen Summary

Zone (Degrees)	Lumens	% of Lamp	% of Luminaire
0-30	391.6	N/A	66.6%
0-40	522.9	N/A	88.9%
0-60	586.7	N/A	99.7%
0-90	588.2	N/A	100.0%
90-180	0	N/A	0%
0-180	588.2	N/A	100.0%

Test Conditions

Test Temperature:	24.1 °C
Voltage:	120.0 VAC
Current:	0.08785 A
Power:	10.23 W
Power Factor:	0.970
Frequency:	60 Hz
Current THD:	17.0 %

Summary of Results

Total Lumen Output: 588.2 Lumens
Luminaire Efficacy: 57.5 Lumens/Watt
CIE Type: Direct

Spacing Criterion: 0.98 All Directions

Data was acquired using the calibrated photodetector method of absolute photometry. A spectral mismatch correction factor was employed based on the spectral responsivity of the photodetector and the spectral power distribution of the test subject.



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
	0	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3
	5	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8
	10	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
	15	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5
	20	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
	25	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
	30	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2
	35	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9
	40	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0
	45	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
	50	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
	55	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	60	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	65	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Zonal Lumen Tabulation (5 degree zones)

Zone (Degrees)	Lumens	Zone (Degrees)	Lumens	Zone (Degrees)	Lumens	Zone (Degrees)	Lumens
0-5	13.68	45-50	17.52	90-95	0	135-140	0
5-10	40.52	50-55	9.32	95-100	0	140-145	0
10-15	65.04	55-60	4.40	100-105	0	145-150	0
15-20	84.53	60-65	1.34	105-110	0	150-155	0
20-25	95.06	65-70	0.22	110-115	0	155-160	0
25-30	92.78	70-75	0	115-120	0	160-165	0
30-35	76.91	75-80	0	120-125	0	165-170	0
35-40	54.34	80-85	0	125-130	0	170-175	0
40-45	32.56	85-90	0	130-135	0	175-180	0



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%												
Ceiling Cavity Reflectance	90				80				70			
Wall Reflectance	70	50	30	10	70	50	30	10	70	50	30	10
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **											
0	717.3	717.3	717.3	717.3	700.3	700.3	700.3	700.3	684.0	684.0	684.0	684.0
1	682.0	663.2	646.6	631.7	666.6	649.9	634.9	621.4	652.1	637.2	623.7	611.6
2	646.1	613.2	586.3	563.9	632.2	602.6	578.1	557.5	619.1	592.4	570.1	551.2
3	611.2	568.1	535.2	509.3	598.6	559.5	529.2	505.1	586.7	551.2	523.4	500.9
4	578.0	527.5	491.2	463.8	566.5	520.5	486.7	461.0	555.7	513.7	482.4	458.2
5	546.6	491.1	453.0	425.2	536.2	485.2	449.6	423.3	526.4	479.6	446.3	421.3
6	517.2	458.3	419.5	392.0	507.8	453.4	416.9	390.6	498.9	448.6	414.3	389.3
7	489.8	428.7	389.9	363.1	481.2	424.5	387.8	362.1	473.1	420.5	385.8	361.1
8	464.3	402.0	363.6	337.6	456.5	398.5	361.9	336.9	449.2	395.0	360.3	336.1
9	440.7	377.9	340.2	315.0	433.6	374.8	338.8	314.5	426.9	371.8	337.4	313.9
10	418.8	356.0	319.1	294.9	412.4	353.3	318.0	294.5	406.3	350.7	316.9	294.0

Ceiling Cavity Reflectance	50				30			10			0
Wall Reflectance	70	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **										
0	653.6	653.6	653.6	653.6	625.8	625.8	625.8	600.2	600.2	600.2	588.2
1	625.1	613.3	602.6	592.7	591.4	582.9	575.0	571.2	564.6	558.4	547.9
2	594.8	573.3	555.0	539.1	555.7	540.7	527.5	539.4	527.3	516.5	506.7
3	564.8	535.7	512.2	492.9	521.3	501.6	485.1	508.0	491.6	477.6	468.2
4	535.9	500.9	474.0	452.7	489.0	466.0	447.4	477.9	458.4	442.2	433.0
5	508.5	468.9	439.8	417.5	459.0	433.7	413.8	449.7	427.8	410.1	401.2
6	482.6	439.6	409.2	386.5	431.2	404.4	383.9	423.4	399.7	381.2	372.5
7	458.3	412.9	381.7	359.1	405.7	377.9	357.1	399.0	374.1	355.2	346.6
8	435.7	388.4	357.0	334.6	382.3	353.9	333.2	376.5	350.9	331.7	323.4
9	414.6	366.2	334.8	312.8	360.8	332.2	311.7	355.8	329.7	310.5	302.4
10	395.0	345.8	314.7	293.2	341.1	312.5	292.3	336.7	310.4	291.4	283.6

Average Luminance Table (cd/m²)

Horizontal Angle (Degrees)		0	45	90
Vertical Angle (Degree)	0	319600	319600	319600
	45	47680	47680	47680
	55	13950	13950	13950
	65	1566	1566	1566
	75	0	0	0
	85	0	0	0

This test was conducted using photometry techniques according to standard IES procedures. The user must therefore use caution in the following situations: 1) This test was performed using a specific ballast/lamp combination. Extrapolation of this data for other ballast/lamp combinations may produce erroneous results. 2) This test was conducted in a controlled laboratory environment where the ambient temperature was held at 25°C ±1°C. Field performance may differ particularly in regards to change in luminous output as a result of difference in ambient temperature and method of mounting the luminaire.



Polar Plot (Candela)

