UL Verification Services
7036 Snowdrift Road Suite 200
Allentown, PA 18106
610-774-1300

Photometric Indoor Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Catalog Number
SR6-RCF626-3K
Project Number
10107228
Test Number
363206

Test Date

2013-11-14

Prepared By

Tammy Lacey, Administrative Assistant II

Approved By

Zachary Mooney, Engineer Project Associate

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Luminaire Description:	Aluminum heatsink, white plastic with frosted plastic lens, aluminum semi-specular outer reflector
Catalog Number:	SR6-RCF626-3K
Lamp:	12 white LEDs
Mounting:	Recessed
Ballast/Driver:	One ISDM-T540-U-ND 26

Luminaire

Test Conditions

Test Temperature:	25.4	°C
Voltage:	120.0	VAC
Current:	0.2135	A
Power:	25.13	W
Power Factor:	0.981	
Frequency:	60	Hz
Current THD:	19.0	%

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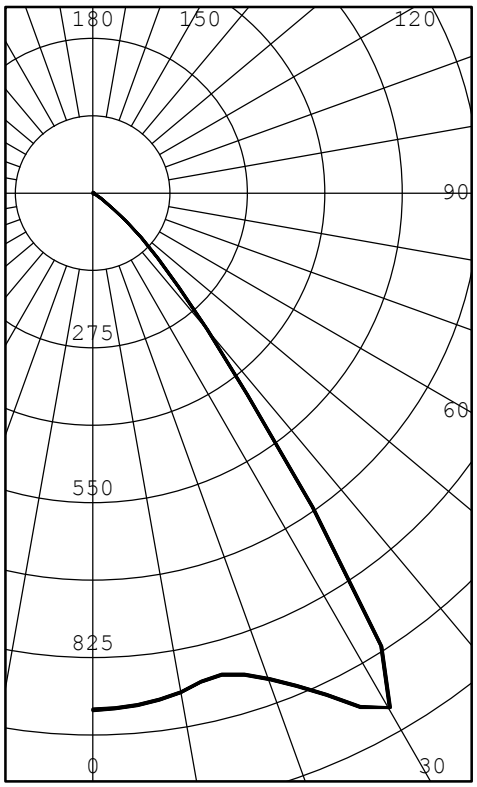

INTENSITY(CANDLEPOWER) SUMMARY

ANGLE	MEAN CP	LUMENS
0	918	
5	913	88
10	901	
15	886	254
20	919	
25	984	459
30	1056	
35	680	423
40	316	
45	164	133
50	78	
55	29	30
60	12	
65	6	6
70	3	
75	2	2
80	1	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	801	57.39
0-40	1223	87.68
0-60	1387	99.42
0-90	1395	100.00
40-90	172	12.32
60-90	8	0.58
90-180	0	0.00
0-180	1395	100.00

EFFICACY (LUMENS PER WATT): 55.6

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS DIAMETER: 6.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
SC: 1.1

ANGLE	MEAN CD/SQ M
45	12771
55	2784
65	752
75	346
85	0

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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INTENSITY(CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	INTENSITY (CANDLEPOWER)	LUMENS
0.0	918	
2.5	916	
5.0	913	88
7.5	908	
10.0	901	
12.5	889	
15.0	886	254
17.5	897	
20.0	919	
22.5	948	
25.0	984	459
27.5	1029	
30.0	1056	
32.5	954	
35.0	680	423
37.5	452	
40.0	316	
42.5	226	
45.0	164	133
47.5	117	
50.0	78	
52.5	47	
55.0	29	30
57.5	18	
60.0	12	
62.5	8	
65.0	6	6
67.5	4	
70.0	3	
72.5	2	
75.0	2	2
77.5	1	
80.0	1	
82.5	0	
85.0	0	0
87.5	0	
90.0	0	

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50			30			10			0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																						
0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.16	1.13	1.11	1.08	1.14	1.11	1.09	1.06	1.11	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	0.98	0.98	0.97	0.96	0.94
2	1.10	1.06	1.02	0.98	1.08	1.04	1.00	0.97	1.06	1.02	0.99	0.96	0.99	0.96	0.94	0.96	0.94	0.92	0.93	0.92	0.90	0.88
3	1.05	0.98	0.93	0.89	1.03	0.97	0.92	0.89	1.01	0.96	0.92	0.88	0.93	0.90	0.87	0.91	0.88	0.85	0.89	0.86	0.84	0.83
4	1.00	0.92	0.86	0.83	0.98	0.91	0.86	0.82	0.97	0.90	0.85	0.81	0.88	0.84	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.77
5	0.95	0.86	0.80	0.76	0.93	0.85	0.79	0.75	0.91	0.84	0.79	0.75	0.82	0.78	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.72
6	0.90	0.81	0.74	0.70	0.89	0.80	0.74	0.70	0.87	0.79	0.73	0.70	0.77	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.67
7	0.85	0.75	0.69	0.65	0.83	0.74	0.68	0.64	0.82	0.74	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.62
8	0.80	0.70	0.64	0.60	0.79	0.69	0.63	0.59	0.78	0.68	0.63	0.59	0.68	0.62	0.59	0.67	0.62	0.58	0.66	0.61	0.58	0.57
9	0.75	0.65	0.59	0.54	0.74	0.65	0.58	0.54	0.73	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.53	0.52
10	0.71	0.60	0.54	0.50	0.70	0.60	0.54	0.50	0.69	0.60	0.54	0.50	0.59	0.53	0.50	0.58	0.53	0.49	0.57	0.53	0.49	0.48

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.