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-RCF615-3K
Project Number
10310836
Test Number
604499

Test Date

2014-04-30

Prepared By

Dane Hernandez-Adams, Technician

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-RCF615-3K
Lamp:	8 white LEDs
Mounting:	Recessed
Ballast/Driver:	One ISDM-A15-U

Luminaire

Test Conditions

Test Temperature:	24.5	°C
Voltage:	120.0	VAC
Current:	0.1148	A
Power:	13.69	W
Power Factor:	0.994	
Frequency:	60	Hz
Current THD:	3.65	%

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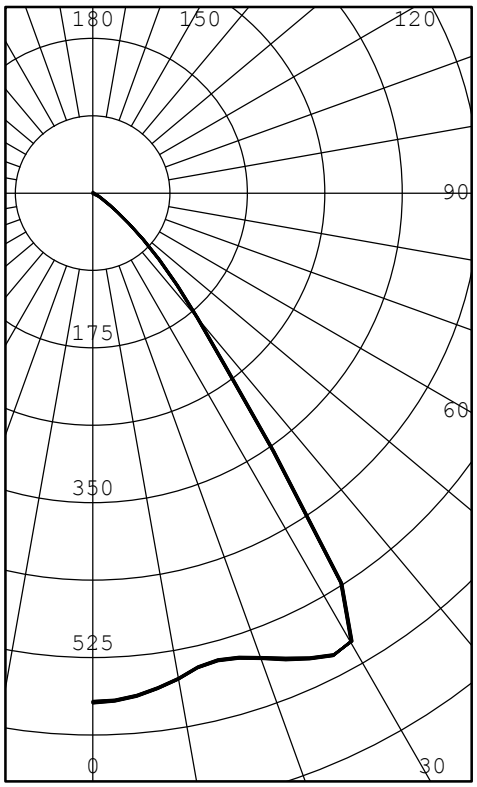

INTENSITY(CANDLEPOWER) SUMMARY

ANGLE	MEAN CP	LUMENS
0	575	
5	571	55
10	558	
15	547	156
20	560	
25	580	268
30	585	
35	356	230
40	185	
45	107	84
50	54	
55	24	24
60	11	
65	5	6
70	2	
75	0	1
80	0	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	479	58.16
0-40	709	86.10
0-60	817	99.26
0-90	823	100.00
40-90	114	13.90
60-90	6	0.74
90-180	0	0.00
0-180	823	100.00

EFFICACY (LUMENS PER WATT): 60.1

*** 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	8290
55	2343
65	669
75	19
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	575	
2.5	574	
5.0	571	55
7.5	565	
10.0	558	
12.5	549	
15.0	547	156
17.5	551	
20.0	560	
22.5	570	
25.0	580	268
27.5	589	
30.0	585	
32.5	523	
35.0	356	230
37.5	245	
40.0	185	
42.5	141	
45.0	107	84
47.5	78	
50.0	54	
52.5	36	
55.0	24	24
57.5	17	
60.0	11	
62.5	8	
65.0	5	6
67.5	3	
70.0	2	
72.5	1	
75.0	0	1
77.5	0	
80.0	0	
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
RCR	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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	0.99	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	0.82
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	0.75	0.70	0.89	0.80	0.74	0.70	0.87	0.79	0.74	0.70	0.78	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	0.69	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	0.64	0.60	0.78	0.69	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.58	0.57
9	0.75	0.65	0.59	0.55	0.74	0.65	0.59	0.55	0.73	0.64	0.59	0.55	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.52
10	0.71	0.61	0.54	0.50	0.70	0.60	0.54	0.50	0.69	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.58	0.53	0.50	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

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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.