



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
SR4-RAF415-3K
Project Number
10310836
Test Number
604494

Test Date

2014-04-30

Prepared By

A handwritten signature in black ink, reading 'Dane Hernandez-Adams'.

Dane Hernandez-Adams, Technician

Approved By

A handwritten signature in black ink, reading 'Zachary Mooney'.

Zachary Mooney, Engineer Project Associate

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.



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Luminaire Description: Aluminum heatsink, white plastic with frosted plastic lens, aluminum semi-specular outer reflector
Catalog Number: SR4-RAF415-3K
Lamp: 8 white LEDs
Mounting: Recessed
Ballast/Driver: One ISDM-A15-U

Luminaire



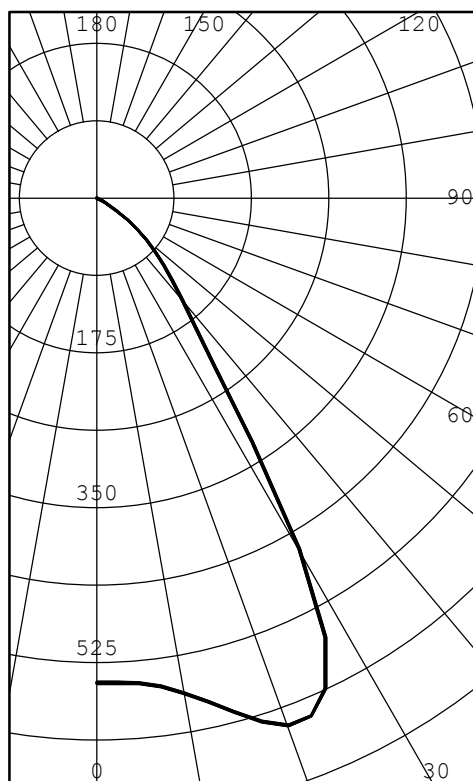
Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.1144 A
Power:	13.65 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	3.58 %



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INTENSITY (CANDLEPOWER) SUMMARY



ANGLE	MEAN CP	LUMENS
0	548	
5	551	54
10	568	
15	602	172
20	634	
25	612	269
30	458	
35	233	160
40	151	
45	107	83
50	74	
55	43	38
60	16	
65	7	7
70	2	
75	0	1
80	0	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	495	63.09
0-40	654	83.46
0-60	776	98.96
0-90	784	100.00
40-90	130	16.54
60-90	8	1.04
90-180	0	0.00
0-180	784	100.00

EFFICACY (LUMENS PER WATT): 57.2

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS DIAMETER: 4.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.2
SC: 1.0

ANGLE	MEAN CD/SQ M
45	18759
55	9347
65	1968
75	146
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	548	
2.5	549	
5.0	551	54
7.5	557	
10.0	568	
12.5	584	
15.0	602	172
17.5	621	
20.0	634	
22.5	634	
25.0	612	269
27.5	560	
30.0	458	
32.5	327	
35.0	233	160
37.5	182	
40.0	151	
42.5	127	
45.0	107	83
47.5	90	
50.0	74	
52.5	58	
55.0	43	38
57.5	26	
60.0	16	
62.5	10	
65.0	7	7
67.5	4	
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
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																									
0	1.221	1.221	1.221	1.221	1.191	1.191	1.191	1.191	1.161	1.161	1.161	1.161	1.111	1.111	1.111	1.061	1.061	1.061	1.021	1.021	1.021	1.000	1.000	1.000	1.000
1	1.161	1.131	1.111	1.081	1.141	1.111	1.091	1.071	1.111	1.091	1.071	1.051	1.051	1.031	1.011	1.011	1.000	0.980	0.970	0.960	0.940	0.940	0.920	0.900	0.880
2	1.101	1.061	1.020	0.980	1.091	1.041	1.000	0.960	1.071	1.020	0.980	0.940	0.990	0.960	0.920	0.960	0.940	0.920	0.940	0.920	0.900	0.880	0.860	0.840	0.820
3	1.050	0.990	0.940	0.900	1.030	0.970	0.930	0.890	1.020	0.960	0.920	0.880	0.940	0.900	0.860	0.910	0.880	0.860	0.890	0.870	0.850	0.830	0.810	0.790	0.770
4	1.000	0.930	0.870	0.830	0.990	0.920	0.870	0.830	0.970	0.910	0.860	0.820	0.890	0.840	0.810	0.870	0.830	0.810	0.850	0.820	0.800	0.780	0.760	0.740	0.720
5	0.960	0.870	0.810	0.770	0.940	0.860	0.800	0.760	0.920	0.850	0.800	0.760	0.830	0.790	0.750	0.820	0.780	0.760	0.800	0.770	0.750	0.730	0.710	0.690	0.670
6	0.910	0.820	0.760	0.720	0.890	0.810	0.750	0.710	0.880	0.800	0.750	0.710	0.790	0.740	0.700	0.770	0.730	0.710	0.760	0.720	0.700	0.680	0.660	0.640	0.620
7	0.860	0.760	0.700	0.660	0.840	0.760	0.700	0.660	0.830	0.750	0.700	0.660	0.740	0.690	0.650	0.720	0.680	0.660	0.710	0.670	0.650	0.630	0.610	0.590	0.570
8	0.820	0.720	0.660	0.620	0.810	0.710	0.650	0.610	0.790	0.700	0.650	0.610	0.690	0.640	0.610	0.680	0.640	0.620	0.670	0.630	0.610	0.590	0.570	0.550	0.530
9	0.770	0.670	0.610	0.570	0.760	0.670	0.610	0.570	0.750	0.660	0.610	0.570	0.650	0.600	0.560	0.640	0.590	0.570	0.630	0.590	0.570	0.550	0.530	0.510	0.490
10	0.730	0.630	0.570	0.530	0.720	0.630	0.570	0.530	0.710	0.620	0.570	0.530	0.610	0.560	0.530	0.610	0.560	0.530	0.600	0.560	0.530	0.510	0.490	0.470	0.450

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.