



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
SR4-RAF426-4K
Project Number
10107228
Test Number
363215

Test Date

2013-11-13

Prepared By

A handwritten signature in black ink, reading 'Tammy Lacey'.

Tammy Lacey, Administrative Assistant II

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-RAF426-4K
Lamp: 12 white LEDs
Mounting: Recessed
Ballast/Driver: One ISDM-T540-U-ND 26

Luminaire



Test Conditions

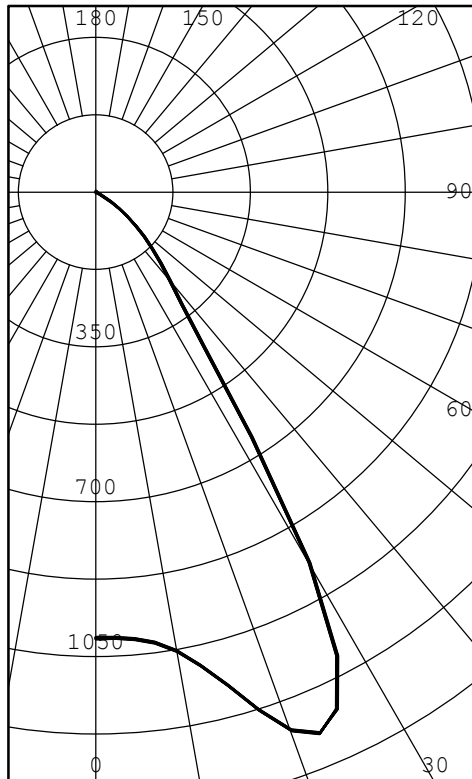
Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.2140 A
Power:	25.21 W
Power Factor:	0.981
Frequency:	60 Hz
Current THD:	18.8 %



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INTENSITY (CANDLEPOWER) SUMMARY



ANGLE	MEAN CP	LUMENS
0	1008	
5	1015	100
10	1054	
15	1155	334
20	1295	
25	1290	564
30	966	
35	426	306
40	262	
45	180	141
50	118	
55	64	59
60	23	
65	10	11
70	4	
75	2	2
80	0	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	998	65.80
0-40	1304	86.01
0-60	1503	99.15
0-90	1516	100.00
40-90	212	13.99
60-90	13	0.85
90-180	0	0.00
0-180	1516	100.00

EFFICACY (LUMENS PER WATT): 60.2

*** 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	31592
55	13842
65	2889
75	750
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	1008	
2.5	1009	
5.0	1015	100
7.5	1028	
10.0	1054	
12.5	1096	
15.0	1155	334
17.5	1228	
20.0	1295	
22.5	1325	
25.0	1290	564
27.5	1182	
30.0	966	
32.5	657	
35.0	426	306
37.5	322	
40.0	262	
42.5	217	
45.0	180	141
47.5	148	
50.0	118	
52.5	90	
55.0	64	59
57.5	42	
60.0	23	
62.5	15	
65.0	10	11
67.5	7	
70.0	4	
72.5	3	
75.0	2	2
77.5	1	
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	1.22	1.191	1.191	1.191	1.19	1.161	1.161	1.161	1.16	1.111	1.111	1.11	1.061	1.061	1.06	1.021	1.021	1.02	1.00			
1	1.161	1.131	1.111	1.09	1.141	1.111	1.091	1.07	1.121	1.091	1.071	1.05	1.051	1.031	1.02	1.011	1.000	0.99	0.980	0.970	0.96	0.94			
2	1.111	1.061	1.030	0.99	1.091	1.051	1.010	0.98	1.071	1.030	0.990	0.97	0.990	0.970	0.94	0.970	0.950	0.93	0.940	0.920	0.91	0.89			
3	1.060	0.990	0.950	0.91	1.040	0.980	0.940	0.90	1.020	0.970	0.930	0.89	0.940	0.910	0.88	0.920	0.890	0.87	0.900	0.870	0.85	0.84			
4	1.010	0.940	0.880	0.84	0.990	0.930	0.880	0.84	0.980	0.910	0.870	0.83	0.890	0.850	0.82	0.870	0.840	0.81	0.860	0.830	0.80	0.79			
5	0.960	0.880	0.820	0.78	0.950	0.870	0.810	0.77	0.930	0.860	0.810	0.77	0.840	0.800	0.77	0.830	0.790	0.76	0.810	0.780	0.75	0.74			
6	0.920	0.830	0.770	0.73	0.900	0.820	0.760	0.73	0.890	0.810	0.760	0.72	0.800	0.750	0.72	0.780	0.740	0.71	0.770	0.730	0.71	0.69			
7	0.870	0.770	0.720	0.68	0.850	0.770	0.710	0.67	0.840	0.760	0.710	0.67	0.750	0.700	0.67	0.740	0.690	0.66	0.730	0.690	0.66	0.65			
8	0.830	0.730	0.670	0.63	0.820	0.720	0.670	0.63	0.800	0.720	0.660	0.63	0.710	0.660	0.62	0.700	0.650	0.62	0.690	0.650	0.62	0.60			
9	0.780	0.690	0.620	0.58	0.770	0.680	0.620	0.58	0.760	0.670	0.620	0.58	0.660	0.610	0.58	0.660	0.610	0.58	0.650	0.610	0.57	0.56			
10	0.740	0.640	0.580	0.55	0.730	0.640	0.580	0.55	0.720	0.640	0.580	0.54	0.630	0.580	0.54	0.620	0.570	0.54	0.610	0.570	0.54	0.53			

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.