



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-RAF426-3K
Project Number
10107228
Test Number
363208

Test Date

2013-11-14

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.



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



Luminaire Description: Aluminum heatsink, white plastic with frosted plastic lens, aluminum semi-specular outer reflector
Catalog Number: SR4-RAF426-3K
Lamp: 12 white LEDs
Mounting: Recessed
Ballast/Driver: One ISDM-T540-U-ND 26

Luminaire



Test Conditions

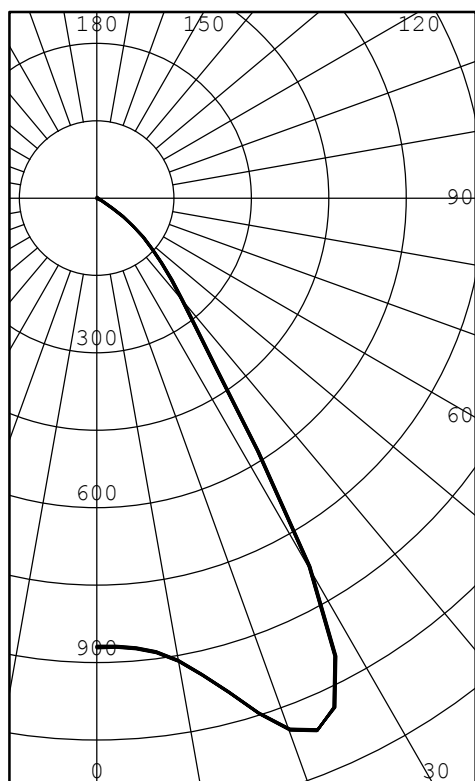
Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.2119 A
Power:	24.96 W
Power Factor:	0.981
Frequency:	60 Hz
Current THD:	18.8 %



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



INTENSITY (CANDLEPOWER) SUMMARY



ANGLE	MEAN CP	LUMENS
0	870	
5	876	86
10	911	
15	991	286
20	1096	
25	1089	477
30	824	
35	407	281
40	258	
45	178	139
50	117	
55	63	57
60	22	
65	9	10
70	4	
75	1	2
80	0	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	849	63.48
0-40	1130	84.51
0-60	1326	99.13
0-90	1338	100.00
40-90	207	15.49
60-90	12	0.87
90-180	0	0.00
0-180	1338	100.00

EFFICACY (LUMENS PER WATT): 53.5

*** 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	31161
55	13602
65	2623
75	606
85	0

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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



INTENSITY (CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	INTENSITY (CANDLEPOWER)	LUMENS
0.0	870	
2.5	871	
5.0	876	86
7.5	888	
10.0	911	
12.5	947	
15.0	991	286
17.5	1047	
20.0	1096	
22.5	1117	
25.0	1089	477
27.5	1001	
30.0	824	
32.5	581	
35.0	407	281
37.5	316	
40.0	258	
42.5	214	
45.0	178	139
47.5	147	
50.0	117	
52.5	89	
55.0	63	57
57.5	37	
60.0	22	
62.5	14	
65.0	9	10
67.5	6	
70.0	4	
72.5	2	
75.0	1	2
77.5	1	
80.0	0	
82.5	0	
85.0	0	0
87.5	0	
90.0	0	

**UL Verification Services**

7036 Snowdrift Road Suite 200

Allentown, PA 18106

610-774-1300



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	1.08	1.141	1.111	1.091	1.07	1.111	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	1.020	0.98	1.091	1.041	1.010	0.97	1.071	1.020	0.990	0.96	0.990	0.960	0.94	0.960	0.940	0.92	0.940	0.920	0.90	0.89			
3	1.050	0.990	0.940	0.90	1.030	0.980	0.930	0.89	1.020	0.960	0.920	0.89	0.940	0.900	0.87	0.910	0.890	0.86	0.890	0.870	0.85	0.83			
4	1.000	0.930	0.870	0.84	0.990	0.920	0.870	0.83	0.970	0.910	0.860	0.82	0.890	0.850	0.81	0.870	0.830	0.81	0.850	0.820	0.80	0.78			
5	0.960	0.870	0.810	0.77	0.940	0.860	0.810	0.77	0.920	0.850	0.800	0.76	0.830	0.790	0.76	0.820	0.780	0.75	0.800	0.770	0.74	0.73			
6	0.910	0.820	0.760	0.72	0.900	0.810	0.750	0.71	0.880	0.800	0.750	0.71	0.790	0.740	0.71	0.770	0.730	0.70	0.760	0.720	0.70	0.68			
7	0.860	0.760	0.700	0.67	0.850	0.760	0.700	0.66	0.840	0.750	0.700	0.66	0.740	0.690	0.66	0.730	0.680	0.65	0.720	0.680	0.65	0.63			
8	0.820	0.720	0.660	0.62	0.810	0.710	0.660	0.62	0.790	0.700	0.650	0.61	0.690	0.650	0.61	0.690	0.640	0.61	0.680	0.640	0.60	0.59			
9	0.770	0.670	0.610	0.57	0.760	0.670	0.610	0.57	0.750	0.660	0.610	0.57	0.650	0.600	0.56	0.640	0.600	0.56	0.630	0.590	0.56	0.55			
10	0.730	0.630	0.570	0.53	0.720	0.630	0.570	0.53	0.710	0.620	0.570	0.53	0.610	0.560	0.53	0.610	0.560	0.53	0.600	0.560	0.52	0.51			

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.