



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



Indoor Distribution Test Report

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

Prepared For
Simkar Corporation

Andre Duljas
700 Ramona Ave
Philadelphia, PA 19120
United States

Catalog Number
RG2LEDMR25041U1

Order Number
10792383
Test Number
1071559

Test Date

2015-05-23

Prepared By

Dane Hernandez-Adams, Technician

Approved By

Carissa Samonte-cam, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White steel housing, white steel reflector plate, specular reflectors, no enclosure
Lamp: 336 white LEDs, four boards with 84 LEDs each
Mounting: Pendant
Ballast/Driver: Four Eagle Rise EWP060C2100LED4P

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 12.00 in.

Summary of Results

Total Luminaire Output: 25320 Lumens
Luminaire Efficacy: 105.4 lm/w
Maximum Candela: 13579 Candela

Electrical Data

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 2.015 A
Power: 240.2 W
Power Factor: 0.993
Frequency: 60 Hz
Current THD: 7.82 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	2.015 A	240.2 W	0.993	60 Hz	7.82 %

Summary of Results

Spacing Criteria

0-180: 1.29
90-270: 1.29

Total Lumen Output:

25320 Lumens

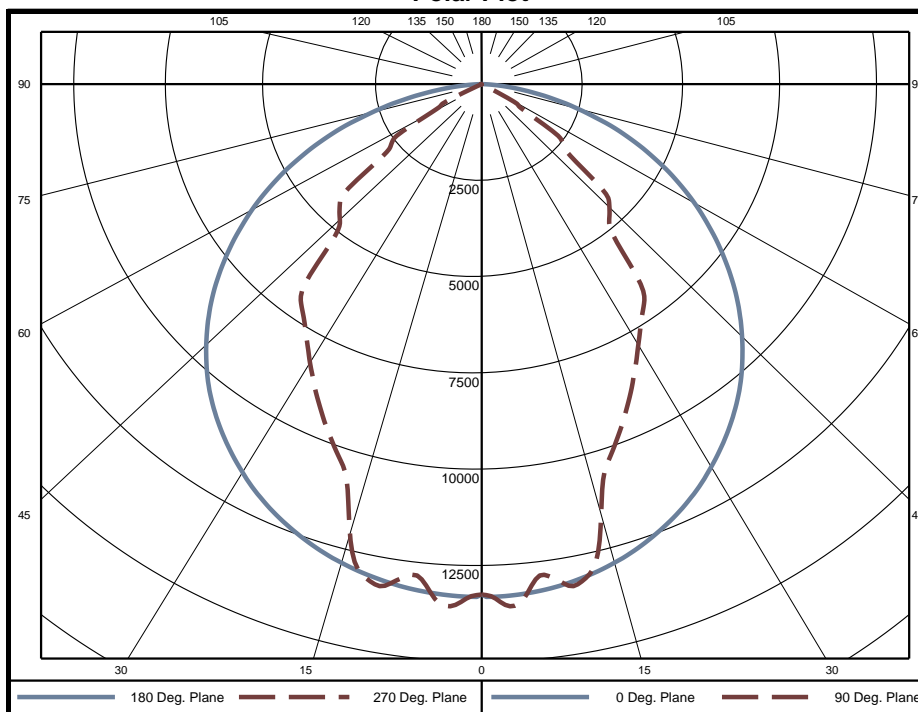
Luminaire Efficacy:

105.4 lm/w

Maximum Candela:

13579 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	321	1.3%	60-65	1101	4.3%	120-125	0	0.0%
5-10	939	3.7%	65-70	652	2.6%	125-130	0	0.0%
10-15	1530	6.0%	70-75	383	1.5%	130-135	0	0.0%
15-20	1944	7.7%	75-80	177	0.7%	135-140	0	0.0%
20-25	2256	8.9%	80-85	64	0.3%	140-145	0	0.0%
25-30	2506	9.9%	85-90	15	0.1%	145-150	0	0.0%
30-35	2633	10.4%	90-95	0	0.0%	150-155	0	0.0%
35-40	2615	10.3%	95-100	0	0.0%	155-160	0	0.0%
40-45	2438	9.6%	100-105	0	0.0%	160-165	0	0.0%
45-50	2285	9.0%	105-110	0	0.0%	165-170	0	0.0%
50-55	1900	7.5%	110-115	0	0.0%	170-175	0	0.0%
55-60	1562	6.2%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	14744	58.2%
0-60	20423	90.6%
0-90	25321	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	
	0	13260	13260	13260	13260	13260	13260	13260	13260	13260	13260	13260	13260	13260	13260	13260	13260
	5	13270	13430	13490	13310	13250	13310	13490	13430	13270	13430	13490	13310	13250	13310	13490	13430
	10	13120	13380	12720	13100	13240	13100	12720	13380	13120	13380	12720	13100	13240	13100	12720	13380
	15	12860	12650	12910	12140	11570	12140	12910	12650	12860	12650	12910	12140	11570	12140	12910	12650
	20	12510	12320	11520	10020	9863	10020	11520	12320	12510	12320	11520	10020	9863	10020	11520	12320
	25	12050	12190	9711	9017	8837	9017	9711	12190	12050	12190	9711	9017	8837	9017	9711	12190
	30	11480	11400	8756	8032	7846	8032	8756	11400	11480	11400	8756	8032	7846	8032	8756	11400
	35	10830	9776	7791	7145	7071	7145	7791	9776	10830	9776	7791	7145	7071	7145	7791	9776
	40	10080	8228	6816	6161	5134	6161	6816	8228	10080	8228	6816	6161	5134	6161	6816	8228
	45	9208	7199	6048	4525	4528	4525	6048	7199	9208	7199	6048	4525	4528	4525	6048	7199
	50	8256	6105	4242	3929	2915	3929	4242	6105	8256	6105	4242	3929	2915	3929	4242	6105
	55	7215	5095	3606	2406	2337	2406	3606	5095	7215	5095	3606	2406	2337	2406	3606	5095
	60	6126	4198	2087	1056	1022	1056	2087	4198	6126	4198	2087	1056	1022	1056	2087	4198
	65	4969	2851	1111	29	11	29	1111	2851	4969	2851	1111	29	11	29	1111	2851
	70	3766	1959	80	10	8	10	80	1959	3766	1959	80	10	8	10	80	1959
	75	2509	868	23	8	6	8	23	868	2509	868	23	8	6	8	23	868
80	1365	22	8	5	4	5	8	22	1365	22	8	5	4	5	8	22	
85	464	8	22	6	2	6	22	8	464	8	22	6	2	6	22	8	
90	6	4	3	1	1	1	3	4	6	4	3	1	1	1	3	4	
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90	
	0	35670	35670	35670
	45	35040	23020	17230
	55	33850	16920	10960
	65	31640	7075	70
	75	26090	244	61
	85	14320	674	54



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	30142	30142	30142	30142	29441	29441	29441	29441	28133	28133	28133	26935	26935	26935	25836	25836	25836	25319
1	28096	27122	26249	25463	27436	26559	25769	25052	25506	24861	24270	24538	24018	23536	23646	23233	22846	22352
2	25974	24234	22793	21582	25350	23772	22452	21331	22905	21801	20846	22106	21189	20384	21366	20614	19943	19447
3	23991	21709	19942	18534	23408	21325	19691	18373	20603	19209	18061	19935	18752	17759	19315	18320	17467	16971
4	22192	19541	17601	16118	21652	19221	17411	16011	18615	17045	15802	18053	16697	15599	17529	16365	15401	14908
5	20576	17686	15667	14177	20080	17416	15521	14104	16905	15238	13960	16429	14967	13819	15984	14707	13682	13195
6	19127	16094	14058	12597	18675	15865	13942	12545	15430	13719	12442	15024	13504	12342	14644	13297	12243	11769
7	17832	14721	12705	11293	17421	14526	12613	11255	14154	12433	11180	13806	12260	11106	13479	12092	11033	10573
8	16675	13535	11560	10203	16302	13367	11484	10175	13047	11338	10119	12746	11196	10063	12464	11059	10009	9564
9	15639	12502	10580	9283	15301	12357	10519	9261	12080	10397	9218	11819	10280	9176	11573	10167	9134	8705
10	14710	11599	9737	8498	14403	11473	9686	8482	11233	9585	8448	11005	9487	8415	10790	9392	8383	7970

Cone of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	828	4.33
6.00	368	6.50
8.00	207	8.67
10.0	133	10.8
12.0	92.1	13.0
14.0	67.6	15.2
16.0	51.8	17.3

Cone of Light Plot

