



UL LLC
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Indoor Distribution Test Report

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

Prepared For
Tempo Industries Inc

1961 McGaw Ave
Irvine, CA 92614-0909
United States

Catalog Number
SPL-WH-35K-FT-12-3

Order Number
11416292
Test Number
1277795

Test Date

2016-08-29

Prepared By

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Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Rectangular grey aluminum housing with white aluminum face plate, and frosted lens with a linear white aluminum reflector
Lamp: Four (4) White LEDs
Mounting: Step

Luminaire



Luminaire Characteristics

Luminous Width 2.50 in.
Luminous Height 1.13 in.

Summary of Results

Total Luminaire Output: 59.71 Lumens
Luminaire Efficacy: 17.3 lm/w
Maximum Candela: 39 Candela

Test Conditions

Test Temperature: 24.4 °C
Voltage: 12.08 VAC
Current: 0.2940 A
Power: 3.455 W
Power Factor: 0.972
Frequency: 60 Hz
Current THD: 22.4 %

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



Distribution - Goniophotometer

Distribution Test Conditions

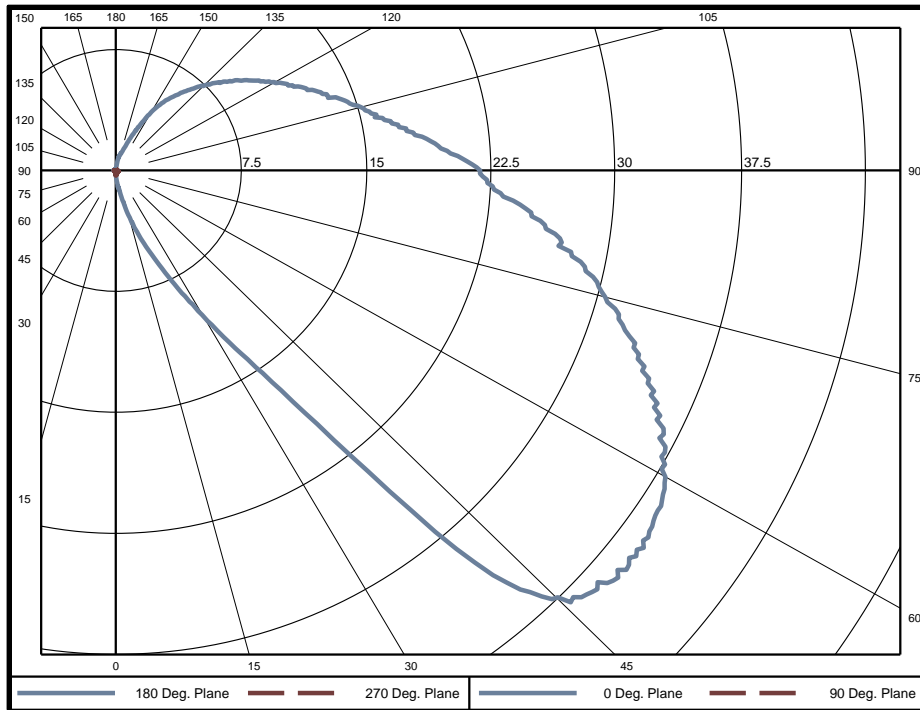
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	12.08 VAC	0.2940 A	3.455 W	0.972	60 Hz	22.4 %

Summary of Results

Spacing Criteria
 0-180: N/A
 90-270: N/A

Total Lumen Output: 59.71 Lumens
Luminaire Efficacy: 17.3 lm/w
Maximum Candela: 39 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.000	0.0%	60-65	4.539	7.6%	120-125	1.237	2.1%
5-10	0.009	0.0%	65-70	4.505	7.5%	125-130	1.017	1.7%
10-15	0.043	0.1%	70-75	4.333	7.3%	130-135	0.810	1.4%
15-20	0.131	0.2%	75-80	4.046	6.8%	135-140	0.622	1.0%
20-25	0.277	0.5%	80-85	3.692	6.2%	140-145	0.454	0.8%
25-30	0.507	0.8%	85-90	3.285	5.5%	145-150	0.306	0.5%
30-35	0.851	1.4%	90-95	2.951	4.9%	150-155	0.174	0.3%
35-40	1.435	2.4%	95-100	2.573	4.3%	155-160	0.085	0.1%
40-45	2.505	4.2%	100-105	2.257	3.8%	160-165	0.040	0.1%
45-50	3.394	5.7%	105-110	1.972	3.3%	165-170	0.008	0.0%
50-55	4.062	6.8%	110-115	1.713	2.9%	170-175	0	0.0%
55-60	4.411	7.4%	115-120	1.470	2.5%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3	5.4%
0-60	18	29.5%
0-90	42	70.4%
90-180	18	29.6%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.14	0.12	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.12
10	0.70	0.67	0.40	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.40	0.67
15	2.29	2.00	1.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	1.01	2.00
20	4.14	3.65	2.07	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	2.07	3.65
25	6.49	5.68	3.27	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	3.27	5.68
30	9.84	8.24	4.68	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	4.68	8.24
35	14.83	11.97	6.30	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80	6.30	11.97
40	26.97	19.06	8.37	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.36	8.37	19.06
45	36.93	29.34	11.45	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.93	11.45	29.34
50	38.78	31.81	17.07	3.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.54	17.07	31.81
55	38.51	32.35	20.80	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.17	20.80	32.35
60	37.51	31.42	21.11	4.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.77	21.11	31.42
65	35.48	30.10	20.52	5.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.35	20.52	30.10
70	32.84	27.75	19.29	5.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.54	19.29	27.75
75	29.85	25.43	17.69	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.53	17.69	25.43
80	26.43	22.94	15.93	5.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.35	15.93	22.94
85	23.80	20.24	14.00	4.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94	14.00	20.24
90	21.32	18.10	12.40	4.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.57	12.40	18.10
95	18.69	15.88	10.90	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.17	10.90	15.88
100	16.29	14.07	9.53	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.72	9.53	14.07
105	14.68	12.67	8.55	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.35	8.55	12.67
110	13.02	11.31	7.67	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.99	7.67	11.31
115	11.74	10.20	6.90	2.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68	6.90	10.20
120	10.46	9.08	6.12	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.36	6.12	9.08
125	9.23	7.93	5.39	2.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05	5.39	7.93
130	8.07	7.00	4.68	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66	4.68	7.00
135	6.89	6.00	4.01	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	4.01	6.00
140	5.89	5.04	3.23	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	3.23	5.04
145	4.85	4.05	2.40	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	2.40	4.05
150	3.49	2.96	1.64	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	1.64	2.96
155	1.98	1.91	1.09	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	1.09	1.91
160	0.96	1.17	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	1.17
165	0.57	0.70	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.70
170	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	0	0	0
45	28780	12620	0
55	25910	19790	0
65	21570	17650	0
75	17030	14270	0
85	13170	10950	0



Utilization of Lumens - Zonal Cavity Method

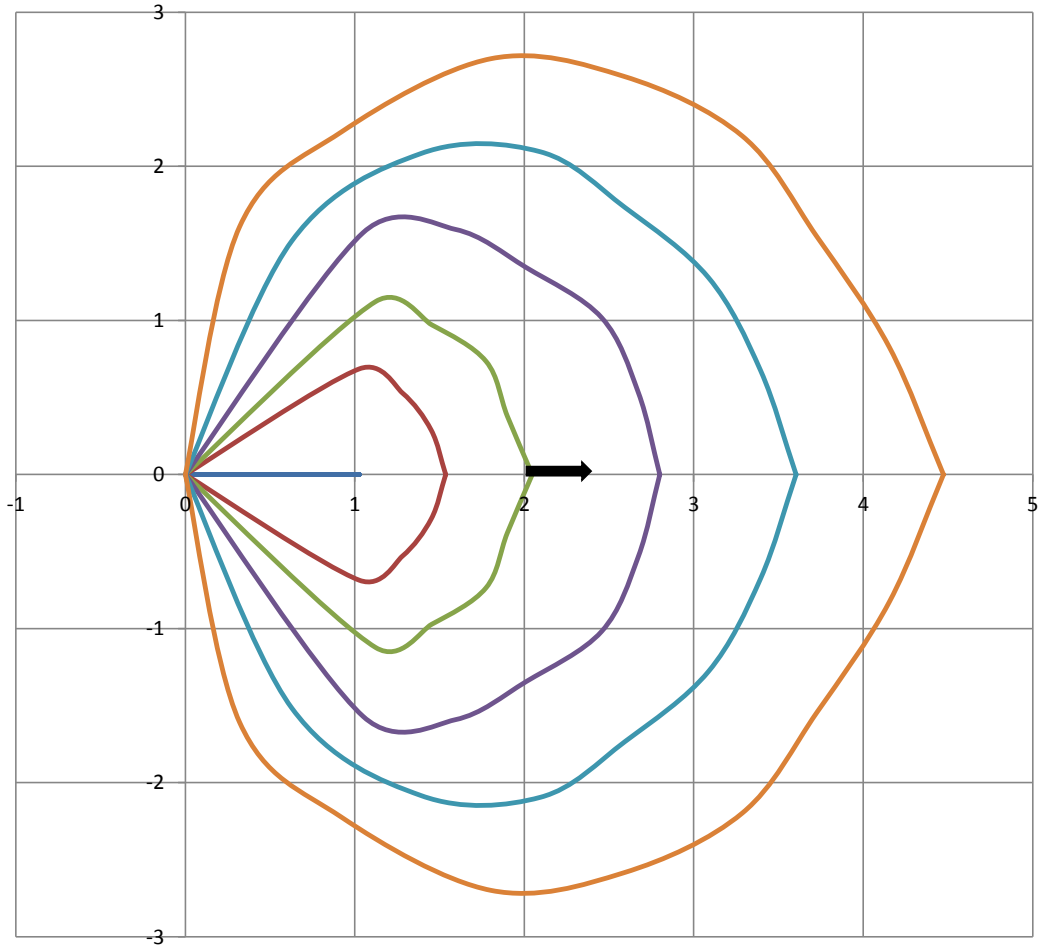
Effective Floor Cavity Reflectance 20%

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	67	67	67	67	63	63	63	63	57	57	57	50	50	50	45	45	45	42
1	57	53	49	45	53	49	46	43	44	41	38	38	36	34	33	31	30	27
2	50	43	38	33	46	40	35	31	35	31	28	31	27	24	26	24	21	19
3	44	36	30	25	41	34	28	24	29	25	21	25	21	18	21	18	16	13
4	40	31	24	19	37	29	23	18	25	20	16	21	17	14	18	15	12	10
5	36	27	20	16	33	25	19	15	21	17	13	18	14	11	15	12	9	7
6	33	23	17	13	30	22	16	12	19	14	10	16	12	9	13	10	7	6
7	30	21	15	10	28	19	14	10	17	12	9	14	10	7	12	9	6	4
8	27	18	13	9	25	17	12	8	15	10	7	13	9	6	11	7	5	3
9	25	17	11	8	24	15	10	7	13	9	6	12	8	5	10	7	4	3
10	24	15	10	6	22	14	9	6	12	8	5	11	7	4	9	6	4	2



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

