



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
Rosco Laboratories Inc
52 Harbor View Ave
Stamford, CT 06902-5914
United States

Catalog Number
SL1 SWITCH with flat diffuser: LEDs tuned to 5600K
Order Number
12451557
Test Number
12451557.06

Test Date

2018-08-16

Prepared By

Cordaryl Cousar, Technician

Approved By

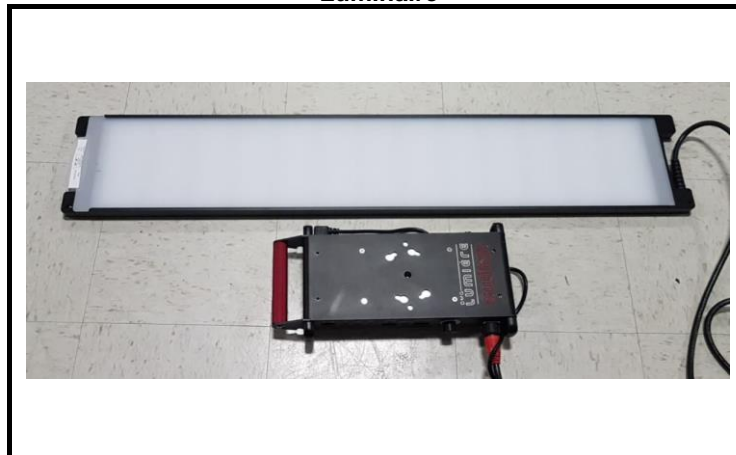
Kevin Rodriguez, Project Handler

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Luminaire Description: Black formed aluminum housing, frosted plastic lens enclosure
Lamp: 2184 white LEDs
Mounting: Surface – Ceiling
Ballast/Driver: DMG Lumiere Switch

Luminaire



Luminaire Characteristics

Luminous Length: 41.75 in.
Luminous Width: 7.500 in.

Summary of Results

Total Luminaire Output:	8686 Lumens
Luminaire Efficacy:	68.5 lm/w
Maximum Candela:	3154 Candela

Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	1.068 A
Power:	126.8 W
Power Factor:	0.989
Frequency:	60 Hz
Current THD:	7.06 %

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



Distribution - Goniophotometer

Distribution Test Conditions

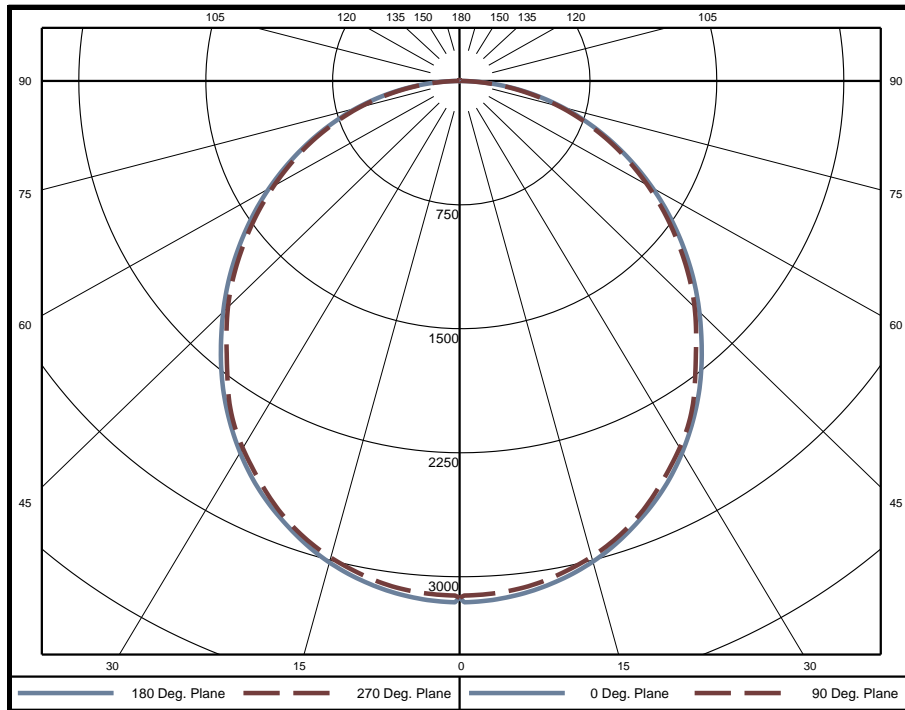
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	1.068 A	126.8 W	0.989	60 Hz	7.06 %

Summary of Results

Spacing Criteria
 0-180: 1.24
 90-270: 1.22

Total Lumen Output: 8686 Lumens
Luminaire Efficacy: 68.5 lm/w
Maximum Candela: 3154 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	74.6	0.9%	60-65	573.0	6.6%	120-125	0	0.0%
5-10	221.0	2.5%	65-70	483.1	5.6%	125-130	0	0.0%
10-15	359.3	4.1%	70-75	382.2	4.4%	130-135	0	0.0%
15-20	484.0	5.6%	75-80	272.6	3.1%	135-140	0	0.0%
20-25	590.1	6.8%	80-85	158.3	1.8%	140-145	0	0.0%
25-30	673.7	7.8%	85-90	47.1	0.5%	145-150	0	0.0%
30-35	732.7	8.4%	90-95	0	0.0%	150-155	0	0.0%
35-40	762.2	8.8%	95-100	0	0.0%	155-160	0	0.0%
40-45	765.3	8.8%	100-105	0	0.0%	160-165	0	0.0%
45-50	748.7	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	709.0	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	649.1	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3898	44.9%
0-60	6770	77.9%
0-90	8686	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	3126	3126	3126	3126	3126	3126	3126	3126	3126	3126	3126	3126	3126	3126	3126
	5	3137	3131	3099	3096	3100	3096	3099	3131	3137	3131	3099	3096	3100	3096	3131
	10	3089	3085	3057	3053	3055	3053	3057	3085	3089	3085	3057	3053	3055	3053	3085
	15	3011	3007	2980	2978	2981	2978	2980	3007	3011	3007	2980	2978	2981	2978	3007
	20	2899	2897	2873	2871	2876	2871	2873	2897	2899	2897	2873	2871	2876	2871	2897
	25	2764	2760	2736	2732	2733	2732	2736	2760	2764	2760	2736	2732	2733	2732	2760
	30	2600	2597	2573	2569	2571	2569	2573	2597	2600	2597	2573	2569	2571	2569	2597
	35	2412	2408	2387	2382	2383	2382	2387	2408	2412	2408	2387	2382	2383	2382	2408
	40	2202	2200	2171	2158	2152	2158	2171	2200	2202	2200	2171	2158	2152	2158	2200
	45	1983	1979	1956	1947	1947	1947	1956	1979	1983	1979	1956	1947	1947	1947	1979
	50	1763	1761	1741	1731	1727	1731	1741	1761	1763	1761	1741	1731	1727	1731	1761
	55	1536	1534	1515	1505	1502	1505	1515	1534	1536	1534	1515	1505	1502	1505	1534
	60	1308	1306	1289	1281	1277	1281	1289	1306	1308	1306	1289	1281	1277	1281	1306
	65	1078	1078	1065	1058	1053	1058	1065	1078	1078	1078	1065	1058	1053	1058	1078
	70	852	852	840	835	832	835	840	852	852	852	840	835	832	835	852
	75	630	629	620	615	613	615	620	629	630	629	620	615	613	615	629
	80	408	407	398	393	390	393	398	407	408	407	398	393	390	393	407
	85	192	192	184	181	178	181	184	192	192	192	184	181	178	181	192
	90	4	7	7	7	7	7	7	4	7	7	7	7	7	7	7
	95	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
	105	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
	115	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
	125	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
	135	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
	145	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
	155	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
	165	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
	175	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

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

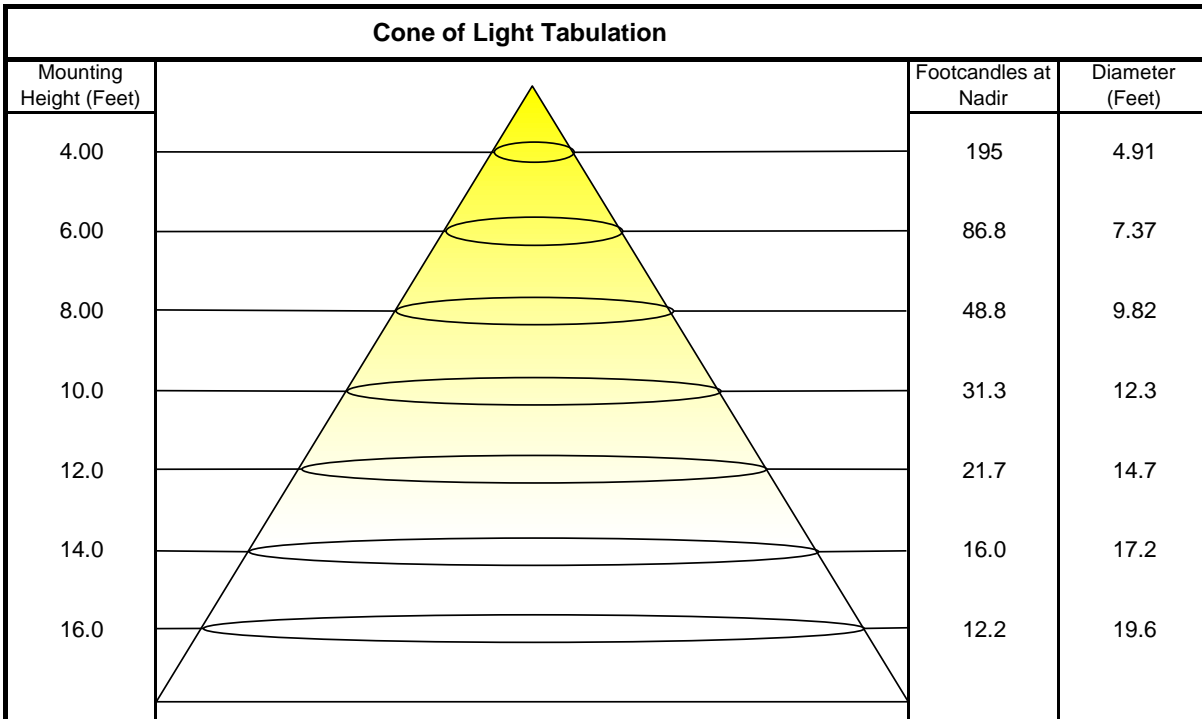
Vertical Angle (Degrees)	0	45	90
	0	15480	15480
	45	13880	13690
	55	13250	13080
	65	12620	12470
	75	12040	11850
	85	10930	10470



Coefficients of Utilization - 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 percent of total lumen output delivered to the task surface **																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

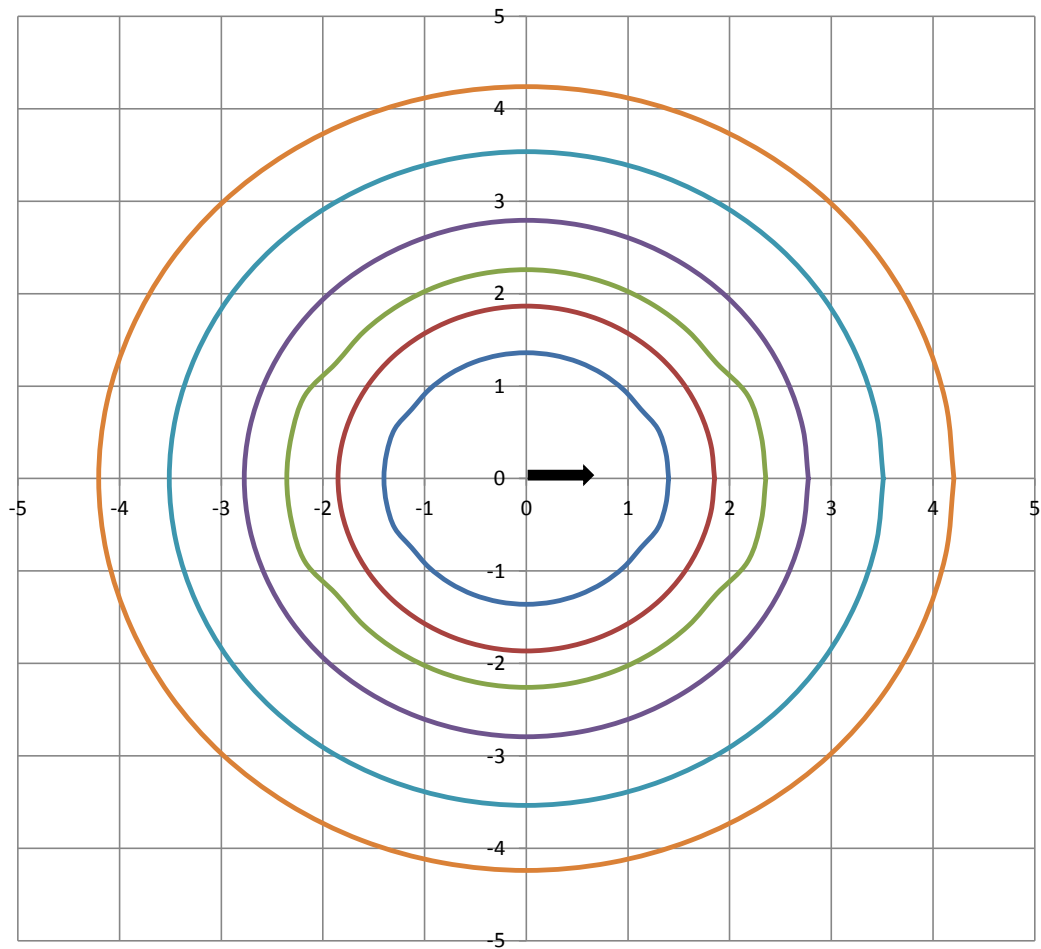
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	3126 Candela
Central Cone Intensity:	3121 Candela
Beam Flux:	5984.9 Lumens
Beam Angle (0-180):	108.8 Degrees
Beam Angle (90-270):	107.2 Degrees
Field Angle (0-180):	164.4 Degrees
Field Angle (90-270):	163.6 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

— 5 fc — 2 fc — 1 fc — 0.5 fc — 0.2 fc — 0.1 fc