



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 3200K
Order Number
12451557
Test Number
12451557.05

Test Date

2018-08-16

Prepared By

Cordaryl Cousar, Technician

Approved By

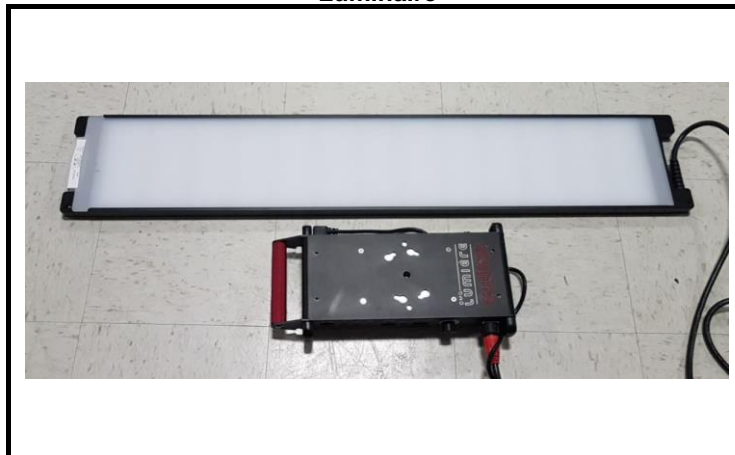
Kevin Rodriguez, Project Handler

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.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



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:	7960 Lumens
Luminaire Efficacy:	62.7 lm/w
Maximum Candela:	2900 Candela

Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	1.069 A
Power:	126.9 W
Power Factor:	0.989
Frequency:	60 Hz
Current THD:	7.03 %

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	1.069 A	126.9 W	0.989	60 Hz	7.03 %

Summary of Results

Spacing Criteria

0-180: 1.24

90-270: 1.22

Total Lumen Output:

7960 Lumens

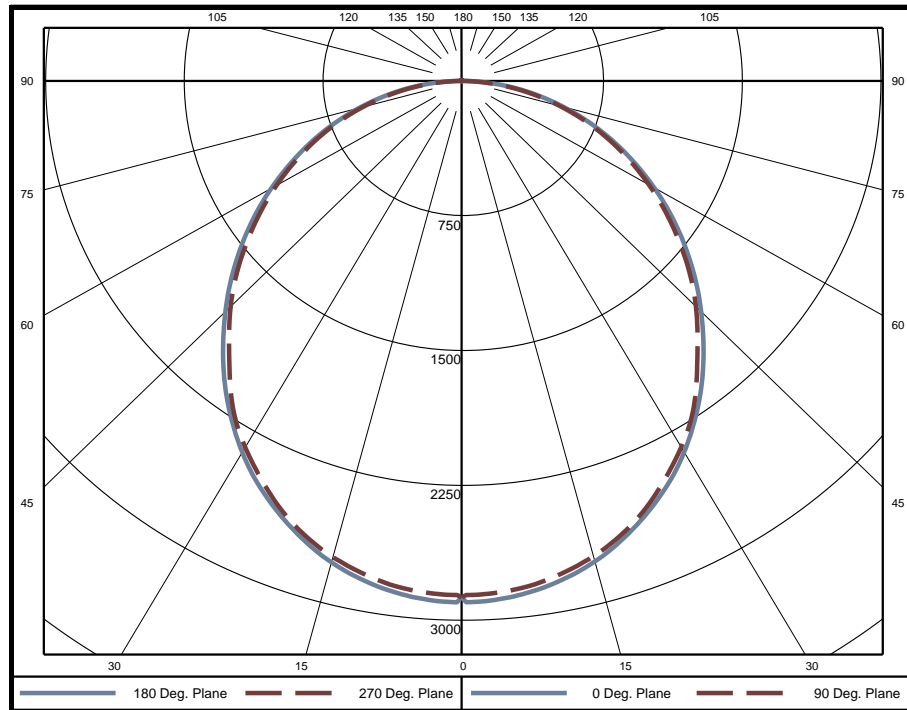
Luminaire Efficacy:

62.7 lm/w

Maximum Candela:

2900 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	68.5	0.9%	60-65	524.4	6.6%	120-125	0	0.0%
5-10	203.0	2.6%	65-70	442.1	5.6%	125-130	0	0.0%
10-15	330.0	4.1%	70-75	349.1	4.4%	130-135	0	0.0%
15-20	444.4	5.6%	75-80	248.3	3.1%	135-140	0	0.0%
20-25	541.7	6.8%	80-85	144.4	1.8%	140-145	0	0.0%
25-30	618.3	7.8%	85-90	43.2	0.5%	145-150	0	0.0%
30-35	672.1	8.4%	90-95	0	0.0%	150-155	0	0.0%
35-40	698.9	8.8%	95-100	0	0.0%	155-160	0	0.0%
40-45	701.6	8.8%	100-105	0	0.0%	160-165	0	0.0%
45-50	686.0	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	649.4	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	594.3	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3577	44.9%
0-60	6208	78.0%
0-90	7960	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	2872	2872	2872	2872	2872	2872	2872	2872	2872	2872	2872	2872	2872	2872	2872
	5	2885	2876	2847	2844	2848	2844	2847	2876	2885	2876	2847	2844	2848	2844	2847
	10	2840	2832	2807	2804	2806	2804	2807	2832	2840	2832	2807	2804	2806	2804	2807
	15	2767	2760	2737	2734	2737	2734	2737	2760	2767	2760	2737	2734	2737	2734	2737
	20	2664	2659	2638	2635	2640	2635	2638	2659	2664	2659	2638	2635	2640	2635	2638
	25	2538	2532	2512	2506	2508	2506	2512	2532	2538	2532	2512	2506	2508	2506	2512
	30	2389	2381	2360	2355	2359	2355	2360	2381	2389	2381	2360	2355	2359	2355	2360
	35	2215	2207	2189	2183	2185	2183	2189	2207	2215	2207	2189	2183	2185	2183	2189
	40	2023	2015	1991	1977	1975	1977	1991	2015	2023	2015	1991	1977	1975	1977	1991
	45	1822	1812	1792	1785	1784	1785	1792	1812	1822	1812	1792	1785	1784	1785	1792
	50	1619	1611	1595	1585	1585	1585	1595	1611	1619	1611	1595	1585	1585	1585	1595
	55	1412	1404	1387	1377	1377	1377	1387	1404	1412	1404	1387	1377	1377	1377	1387
	60	1200	1193	1180	1172	1170	1172	1180	1193	1200	1193	1180	1172	1170	1172	1180
	65	989	986	975	968	964	968	975	986	989	986	975	968	964	968	975
	70	783	778	770	764	761	764	770	778	783	778	770	764	761	764	770
	75	575	572	566	560	556	560	566	572	575	572	566	560	556	560	566
	80	374	370	363	358	355	358	363	370	374	370	363	358	355	358	363
	85	178	174	169	165	161	165	169	174	178	174	169	165	161	165	169
	90	4	6	7	7	7	7	7	6	4	6	7	7	7	7	6
	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)

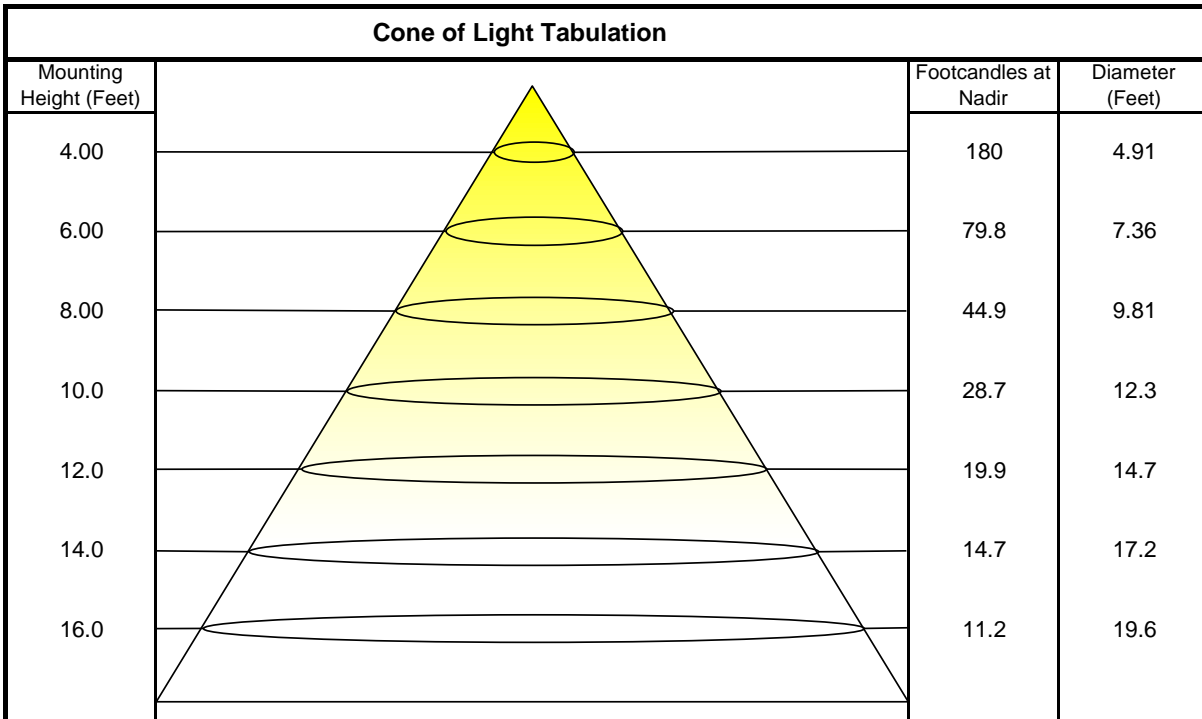
Vertical Angle (Degrees)	0	45	90
	0	14220	14220
	45	12760	12540
	55	12180	11970
	65	11590	11420
	75	11000	10820
	85	10090	9577



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	78	70	64	75	68	63	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	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	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	32	26	38	31	26	37	31	26	36	30	26	24

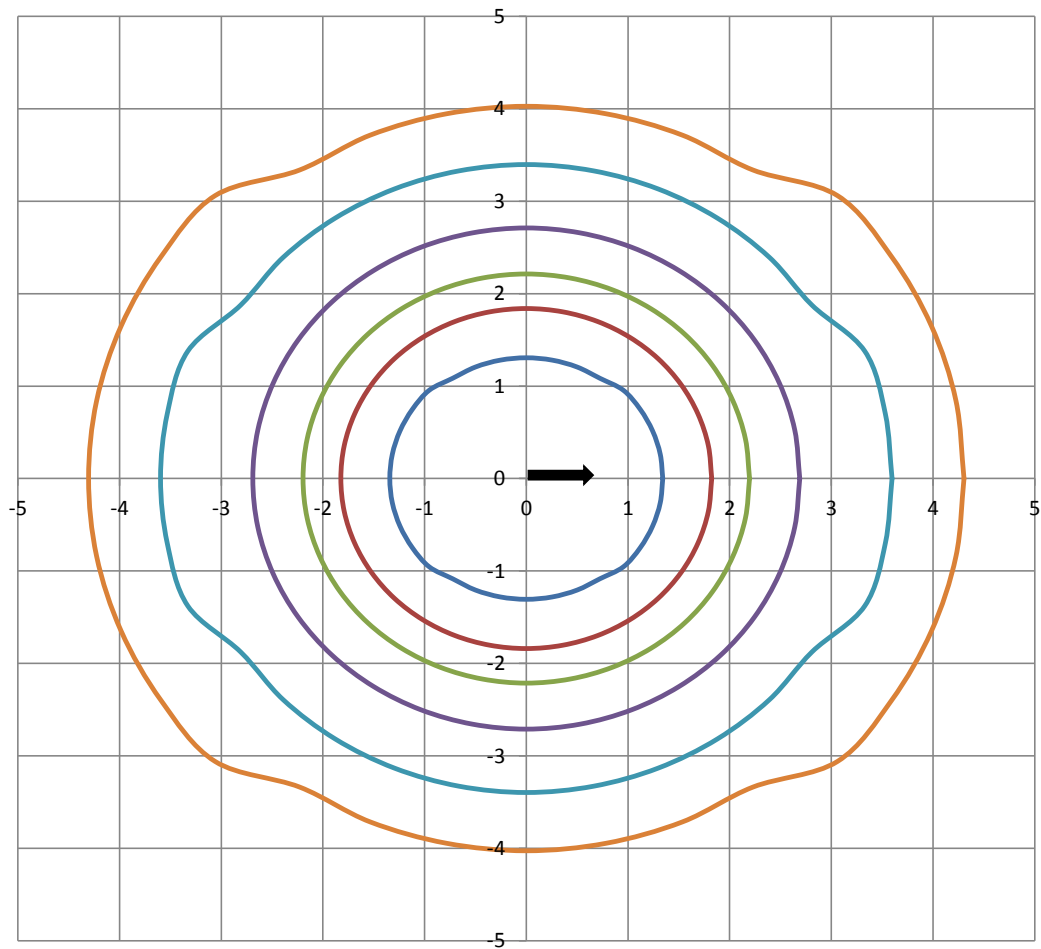
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2872 Candela
Central Cone Intensity:	2867 Candela
Beam Flux:	5476.7 Lumens
Beam Angle (0-180):	108.8 Degrees
Beam Angle (90-270):	107.1 Degrees
Field Angle (0-180):	164.4 Degrees
Field Angle (90-270):	163.5 Degrees





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