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## 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 dome: LEDs tuned to 5600K**  
Order Number  
12451557  
Test Number  
12451557.08

Test Date

2018-08-16

Prepared By

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Approved By

Kevin Rodriguez, Project Handler

The results contained in this report pertain only to the tested sample.  
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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: 44.00 in.  
Luminous Width: 8.000 in.  
Luminous Height: 2.00 in.

**Summary of Results**

Total Luminaire Output: 8994 Lumens  
Luminaire Efficacy: 71.3 lm/w  
Maximum Candela: 2585 Candela

**Test Conditions**

Test Temperature: 24.5 °C  
Voltage: 120.1 VAC  
Current: 1.063 A  
Power: 126.2 W  
Power Factor: 0.989  
Frequency: 60 Hz  
Current THD: 7.15 %

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



## Distribution - Goniophotometer

### Distribution Test Conditions

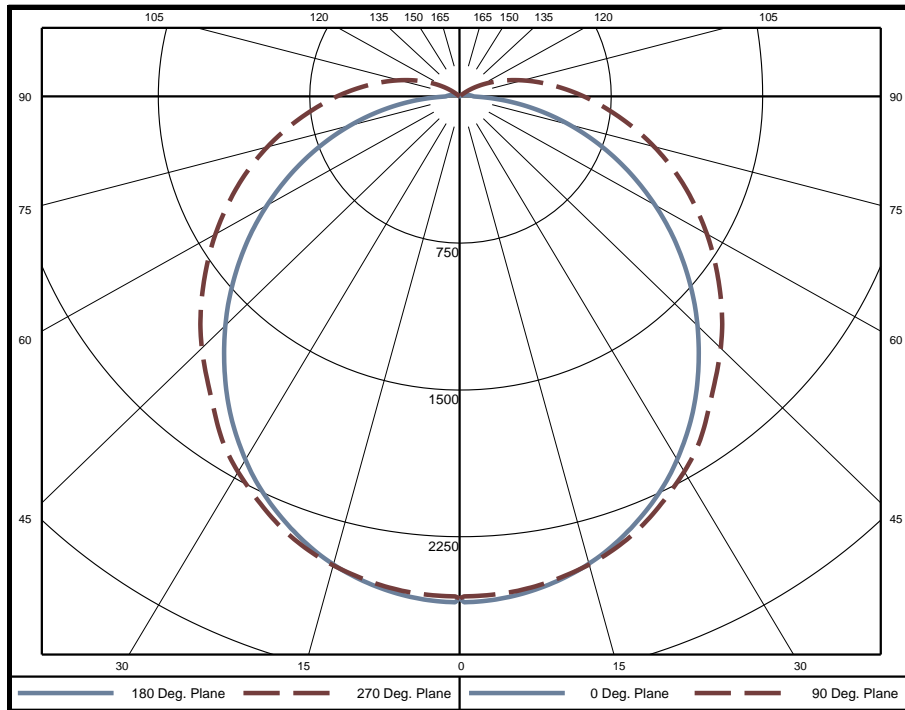
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.1 VAC	1.063 A	126.2 W	0.989	60 Hz	7.15 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.24  
 90-270: 1.28

**Total Lumen Output:** 8994 Lumens  
**Luminaire Efficacy:** 71.3 lm/w  
**Maximum Candela:** 2585 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	61.2	0.7%	60-65	571.2	6.4%	120-125	12.1	0.1%
5-10	181.6	2.0%	65-70	517.0	5.7%	125-130	3.6	0.0%
10-15	296.1	3.3%	70-75	455.3	5.1%	130-135	0.2	0.0%
15-20	400.6	4.5%	75-80	388.3	4.3%	135-140	0	0.0%
20-25	491.2	5.5%	80-85	319.2	3.5%	140-145	0	0.0%
25-30	565.0	6.3%	85-90	253.0	2.8%	145-150	0	0.0%
30-35	620.2	6.9%	90-95	197.2	2.2%	150-155	0	0.0%
35-40	653.4	7.3%	95-100	150.2	1.7%	155-160	0	0.0%
40-45	667.6	7.4%	100-105	109.2	1.2%	160-165	0	0.0%
45-50	666.8	7.4%	105-110	74.3	0.8%	165-170	0	0.0%
50-55	648.9	7.2%	110-115	47.5	0.5%	170-175	0	0.0%
55-60	616.1	6.9%	115-120	27.0	0.3%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3269	36.3%
0-60	5869	65.3%
0-90	8373	93.1%
90-180	621	6.9%



### 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	2564	2564	2564	2564	2564	2564	2564	2564	2564	2564	2564	2564	2564	2564	2564
	5	2571	2568	2545	2544	2547	2544	2545	2568	2571	2568	2545	2544	2547	2544	2545
	10	2533	2532	2515	2516	2520	2516	2515	2532	2533	2532	2515	2516	2520	2516	2515
	15	2471	2473	2461	2468	2475	2468	2461	2473	2471	2473	2461	2468	2475	2468	2461
	20	2383	2388	2384	2398	2409	2398	2384	2388	2383	2388	2384	2398	2409	2398	2384
	25	2274	2282	2285	2305	2316	2305	2285	2282	2274	2282	2285	2305	2316	2305	2285
	30	2146	2154	2166	2195	2212	2195	2166	2154	2146	2154	2166	2195	2212	2195	2166
	35	1998	2009	2029	2068	2088	2068	2029	2009	1998	2009	2029	2068	2088	2068	2029
	40	1833	1847	1871	1917	1944	1917	1871	1847	1833	1847	1871	1917	1944	1917	1871
	45	1662	1676	1714	1783	1818	1783	1714	1676	1662	1676	1714	1783	1818	1783	1714
	50	1484	1503	1559	1645	1684	1645	1559	1503	1484	1503	1559	1645	1684	1645	1559
	55	1303	1324	1403	1502	1544	1502	1403	1324	1303	1324	1403	1502	1544	1502	1403
	60	1117	1142	1251	1362	1405	1362	1251	1142	1117	1142	1251	1362	1405	1362	1251
	65	931	967	1103	1222	1266	1222	1103	967	931	967	1103	1222	1266	1222	1103
	70	745	801	959	1085	1129	1085	959	801	745	801	959	1085	1129	1085	959
	75	563	647	819	947	991	947	819	647	563	647	819	947	991	947	819
	80	384	503	684	813	856	813	684	503	384	503	684	813	856	813	684
	85	212	373	559	687	728	687	559	373	212	373	559	687	728	687	559
	90	70	264	447	572	612	572	447	264	70	264	447	572	612	572	447
	95	55	176	346	464	504	464	346	176	55	176	346	464	504	464	346
	100	42	106	256	367	407	367	256	106	42	106	256	367	407	367	256
	105	30	51	178	281	319	281	178	51	30	51	178	281	319	281	178
	110	20	15	111	205	241	205	111	15	20	15	111	205	241	205	111
	115	11	6	57	140	171	140	57	6	11	6	57	140	171	140	57
	120	4	1	15	83	110	83	15	1	4	1	15	83	110	83	15
	125	0	0	0	34	57	34	0	0	0	0	34	57	34	0	0
	130	0	0	0	3	13	3	0	0	0	0	3	13	3	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/m<sup>2</sup>)

Horizontal Angle (Degrees)

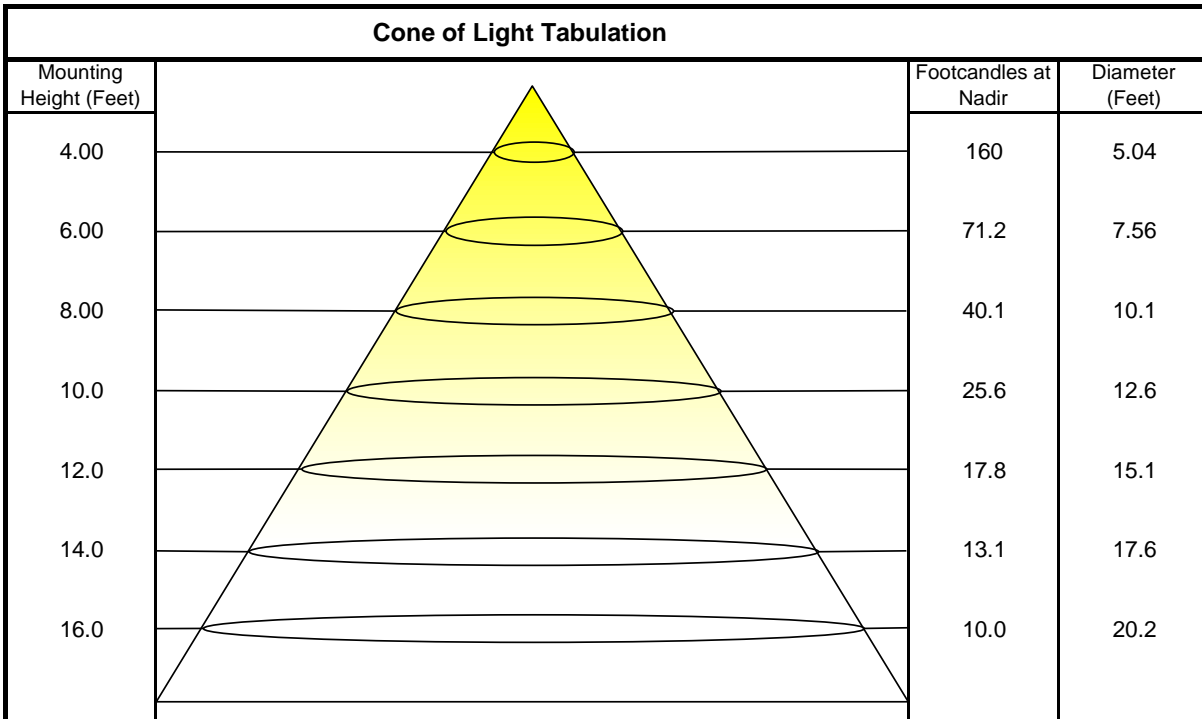
Vertical Angle (Degrees)	0	45	90
	0	11290	11290
	45	9898	8830
	55	9392	8297
	65	8834	7940
	75	8193	7830
	85	7050	8333



### 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	105	99	94	89	101	96	91	87	90	87	83	85	82	79	81	78	76	73
2	95	85	78	71	91	83	76	70	78	72	67	74	69	64	69	65	62	59
3	86	74	65	58	83	72	64	57	68	61	55	64	58	53	61	56	52	49
4	78	65	56	49	75	64	55	48	60	53	47	57	51	45	54	49	44	41
5	72	58	49	42	69	57	48	41	54	46	40	51	44	39	48	43	38	36
6	66	52	43	36	64	51	42	36	48	41	35	46	39	34	44	38	33	31
7	61	47	38	32	59	46	38	32	44	36	31	42	35	30	40	34	29	27
8	57	43	34	28	55	42	34	28	40	33	27	38	32	27	37	31	26	24
9	53	40	31	25	51	39	31	25	37	30	25	35	29	24	34	28	24	22
10	50	36	28	23	48	36	28	23	34	27	22	33	26	22	31	26	22	20

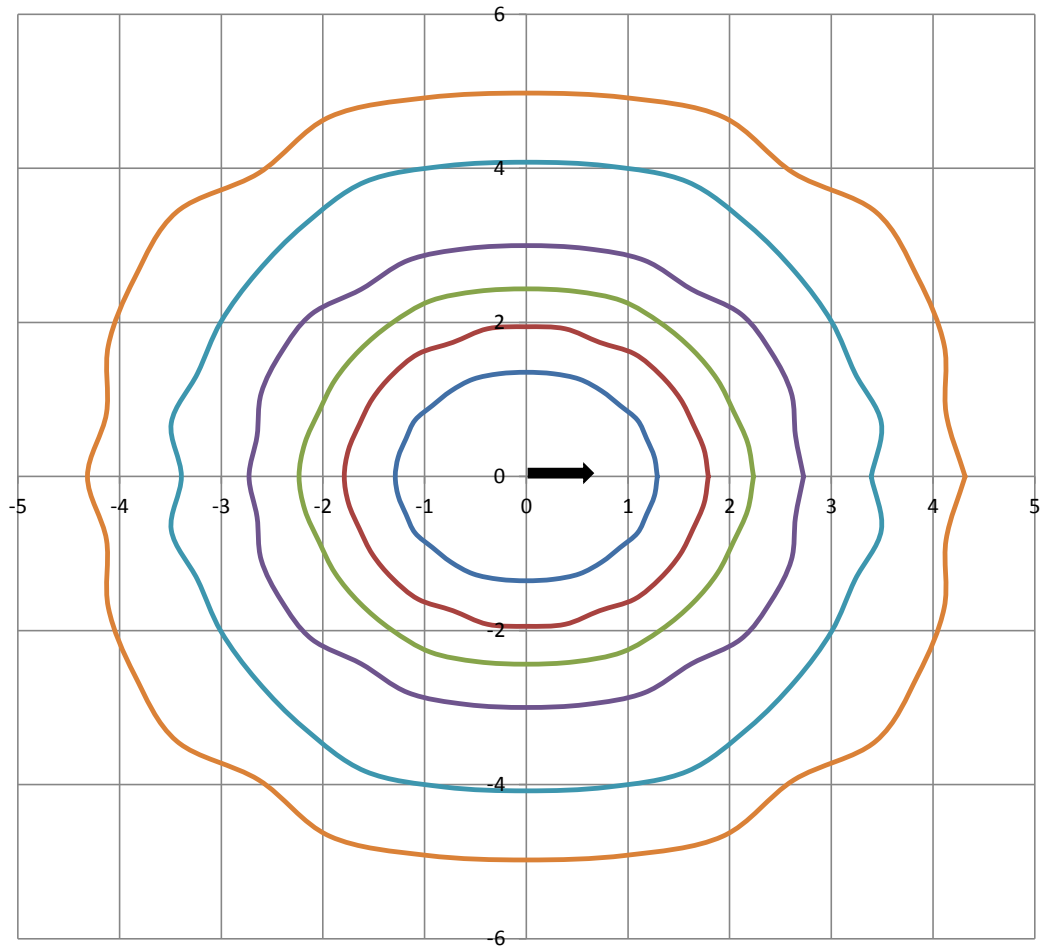
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2564 Candela
Central Cone Intensity:	2561 Candela
Beam Flux:	5829.8 Lumens
Beam Angle (0-180):	111.1 Degrees
Beam Angle (90-270):	128.8 Degrees
Field Angle (0-180):	167.4 Degrees
Field Angle (90-270):	217.9 Degrees





## 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