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7036 Snowdrift Road
Allentown, PA 18106
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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 MIX with dome: LEDs tuned to 5600K
Order Number
12451557
Test Number
12451557.18

Test Date

2018-08-09

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: 576 white/colored LEDs
Mounting: Surface – Ceiling
Ballast/Driver: One Mean Well GST220A24-R7B

Luminaire



Luminaire Characteristics

Luminous Length: 44.00 in.
Luminous Width: 8.000 in.
Luminous Height: 2.00 in.

Summary of Results

Total Luminaire Output: 13810 Lumens
Luminaire Efficacy: 76.4 lm/w
Maximum Candela: 3789 Candela

Test Conditions

Test Temperature: 25.1 °C
Voltage: 120.0 VAC
Current: 1.522 A
Power: 180.8 W
Power Factor: 0.990
Frequency: 60 Hz
Current THD: 11.0 %

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



Distribution - Goniophotometer

Distribution Test Conditions

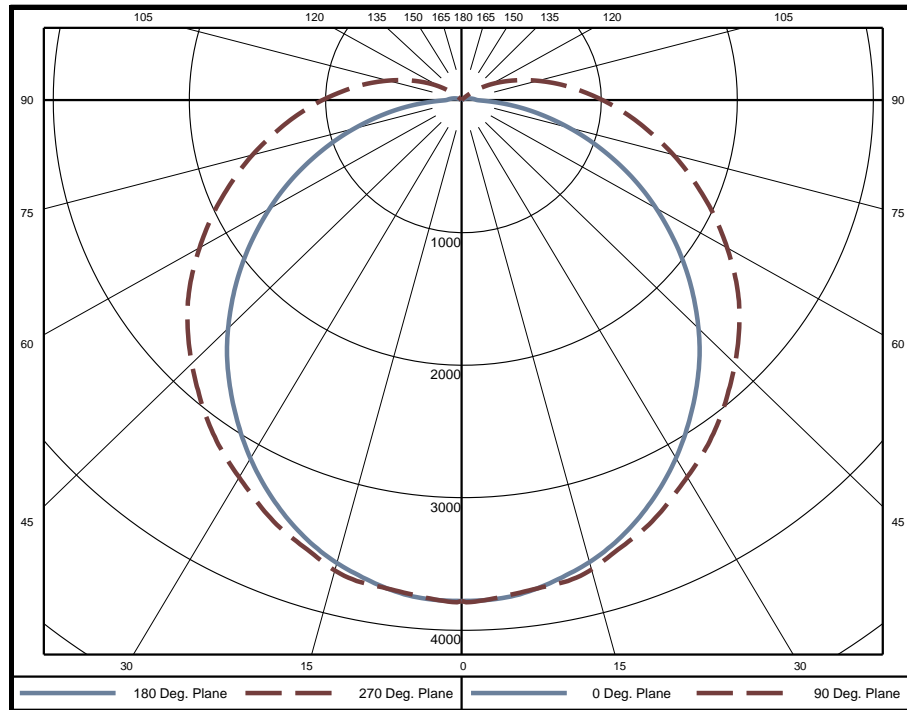
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	1.522 A	180.8 W	0.990	60 Hz	11.0 %

Summary of Results

Spacing Criteria
 0-180: 1.23
 90-270: 1.30

Total Lumen Output: 13810 Lumens
Luminaire Efficacy: 76.4 lm/w
Maximum Candela: 3789 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	90	0.7%	60-65	880	6.4%	120-125	32	0.2%
5-10	267	1.9%	65-70	798	5.8%	125-130	15	0.1%
10-15	435	3.1%	70-75	706	5.1%	130-135	4	0.0%
15-20	588	4.3%	75-80	607	4.4%	135-140	0	0.0%
20-25	721	5.2%	80-85	509	3.7%	140-145	0	0.0%
25-30	829	6.0%	85-90	413	3.0%	145-150	0	0.0%
30-35	914	6.6%	90-95	330	2.4%	150-155	0	0.0%
35-40	973	7.0%	95-100	259	1.9%	155-160	0	0.0%
40-45	1006	7.3%	100-105	194	1.4%	160-165	0	0.0%
45-50	1011	7.3%	105-110	138	1.0%	165-170	0	0.0%
50-55	992	7.2%	110-115	93	0.7%	170-175	0	0.0%
55-60	946	6.9%	115-120	59	0.4%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	4817	34.9%
0-60	8772	63.5%
0-90	12685	91.9%
90-180	1124	8.1%



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	3779	3779	3779	3779	3779	3779	3779	3779	3779	3779	3779	3779	3779	3779	3779
	5	3765	3756	3759	3748	3753	3748	3759	3756	3765	3756	3759	3748	3753	3748	3759
	10	3701	3692	3708	3710	3718	3710	3708	3692	3701	3692	3708	3710	3718	3710	3708
	15	3608	3602	3625	3643	3662	3643	3625	3602	3608	3602	3625	3643	3662	3643	3625
	20	3478	3483	3515	3529	3542	3529	3515	3483	3478	3483	3515	3529	3542	3529	3515
	25	3314	3321	3366	3398	3424	3398	3366	3321	3314	3321	3366	3398	3424	3398	3366
	30	3124	3137	3193	3245	3277	3245	3193	3137	3124	3137	3193	3245	3277	3245	3193
	35	2910	2932	3010	3090	3138	3090	3010	2932	2910	2932	3010	3090	3138	3090	3010
	40	2687	2718	2812	2920	2976	2920	2812	2718	2687	2718	2812	2920	2976	2920	2812
	45	2445	2483	2603	2737	2805	2737	2603	2483	2445	2483	2603	2737	2805	2737	2603
	50	2185	2230	2386	2555	2628	2555	2386	2230	2185	2230	2386	2555	2628	2555	2386
	55	1916	1971	2162	2354	2436	2354	2162	1971	1916	1971	2162	2354	2436	2354	2162
	60	1642	1710	1933	2140	2221	2140	1933	1710	1642	1710	1933	2140	2221	2140	1933
	65	1368	1455	1707	1924	2009	1924	1707	1455	1368	1455	1707	1924	2009	1924	1707
	70	1089	1209	1485	1712	1794	1712	1485	1209	1089	1209	1485	1712	1794	1712	1485
	75	816	978	1278	1508	1589	1508	1278	978	816	978	1278	1508	1589	1508	1278
	80	556	767	1081	1310	1386	1310	1081	767	556	767	1081	1310	1386	1310	1081
	85	308	586	906	1127	1201	1127	906	586	308	586	906	1127	1201	1127	906
	90	114	429	740	954	1024	954	740	429	114	429	740	954	1024	954	740
	95	90	297	587	788	858	788	587	297	90	297	587	788	858	788	587
	100	69	191	449	640	709	640	449	191	69	191	449	640	709	640	449
	105	50	107	326	501	567	501	326	107	50	107	326	501	567	501	326
	110	33	42	220	381	442	381	220	42	33	42	220	381	442	381	220
	115	20	13	133	274	330	274	133	13	20	13	133	274	330	274	133
	120	7	2	65	185	233	185	65	2	7	2	65	185	233	185	65
	125	0	0	16	107	146	107	16	0	0	0	16	107	146	107	16
	130	0	0	0	42	72	42	0	0	0	0	0	42	72	42	0
	135	0	0	0	6	17	6	0	0	0	0	0	6	17	6	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)

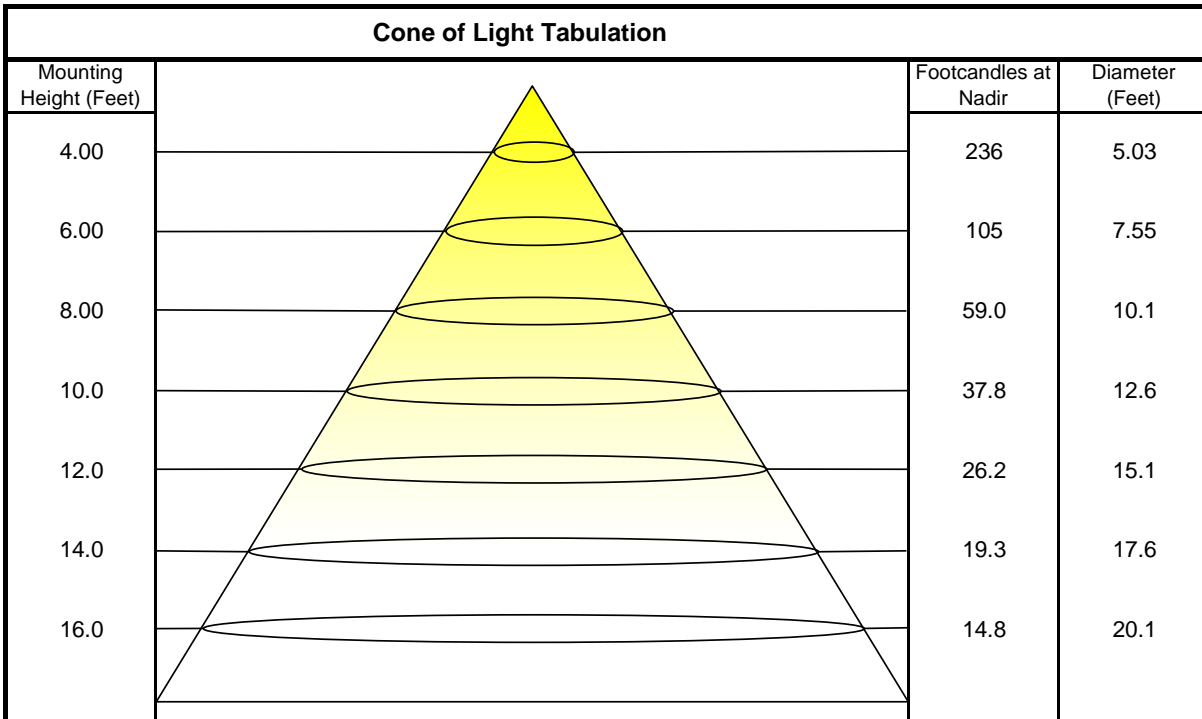
Vertical Angle (Degrees)	0	45	90
	0	16640	16640
	45	14560	13410
	55	13820	12790
	65	12990	12280
	75	11870	12220
	85	10250	13510



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	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	104	99	93	89	101	95	91	86	90	86	82	84	81	78	79	77	74	72
2	94	85	77	70	90	82	75	69	77	71	66	72	68	63	68	64	61	58
3	85	74	65	58	82	71	63	56	67	60	54	63	57	52	60	55	50	48
4	78	65	55	48	75	63	54	47	59	52	46	56	49	44	53	47	43	40
5	71	58	48	41	69	56	47	40	53	45	39	50	43	38	47	42	37	34
6	66	52	42	36	63	50	42	35	48	40	34	45	38	33	43	37	32	30
7	61	47	38	31	59	46	37	31	43	36	30	41	34	29	39	33	29	26
8	57	43	34	28	54	42	33	27	40	32	27	38	31	26	36	30	25	23
9	53	39	31	25	51	38	30	25	36	29	24	35	28	23	33	27	23	21
10	49	36	28	22	48	35	27	22	34	27	22	32	26	21	31	25	21	19

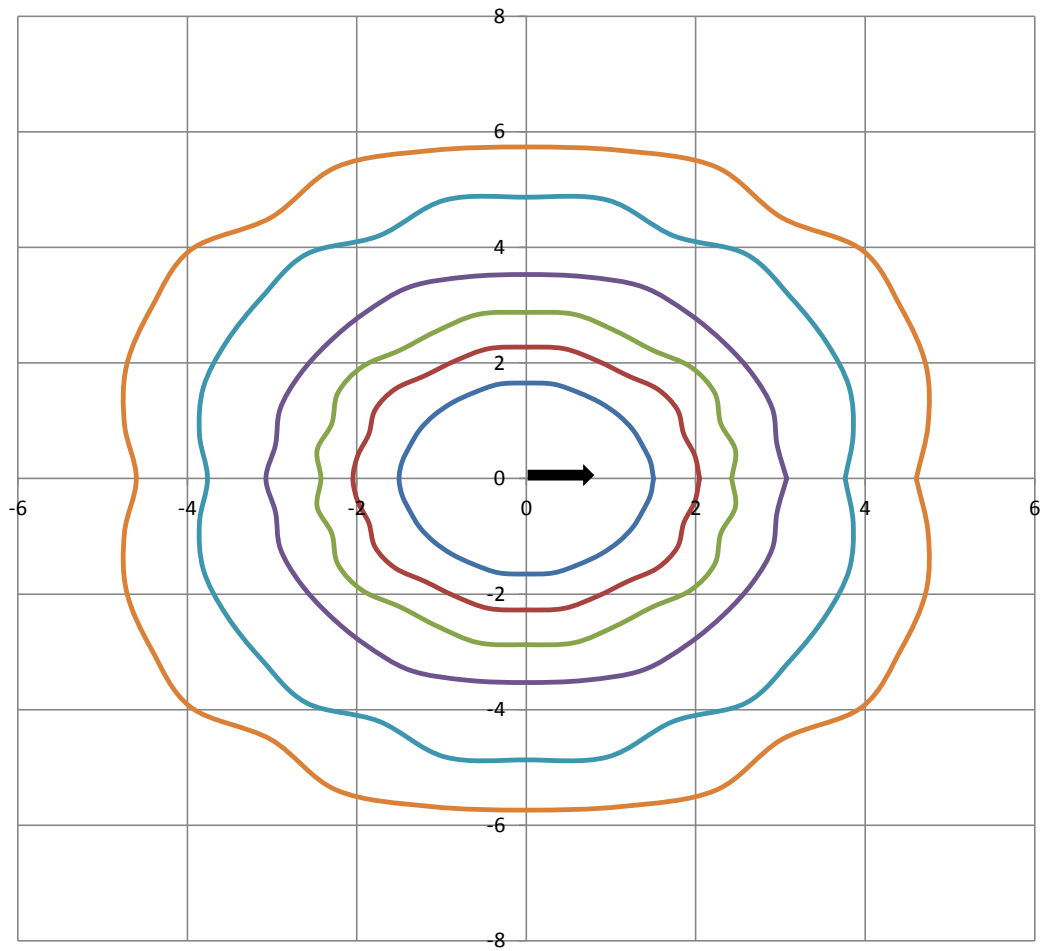
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	3779 Candela
Central Cone Intensity:	3770 Candela
Beam Flux:	9060.2 Lumens
Beam Angle (0-180):	111.0 Degrees
Beam Angle (90-270):	135.5 Degrees
Field Angle (0-180):	167.2 Degrees
Field Angle (90-270):	225.5 Degrees





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