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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
MINI MIX with dome diffuser: LEDs tuned to 5600K
Order Number
12451557
Test Number
12451557.14

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: 288 white/colored LEDs
Mounting: Surface – Ceiling
Ballast/Driver: One Mean Well GS120A24-P1M

Luminaire



Luminaire Characteristics

Luminous Length: 23.00 in.
Luminous Width: 8.000 in.
Luminous Height: 2.00 in.

Summary of Results

Total Luminaire Output: 6558 Lumens
Luminaire Efficacy: 66.1 lm/w
Maximum Candela: 1822 Candela

Test Conditions

Test Temperature: 24.6 °C
Voltage: 120.0 VAC
Current: 0.8289 A
Power: 99.17 W
Power Factor: 0.997
Frequency: 60 Hz
Current THD: 4.45 %

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



Distribution - Goniophotometer

Distribution Test Conditions

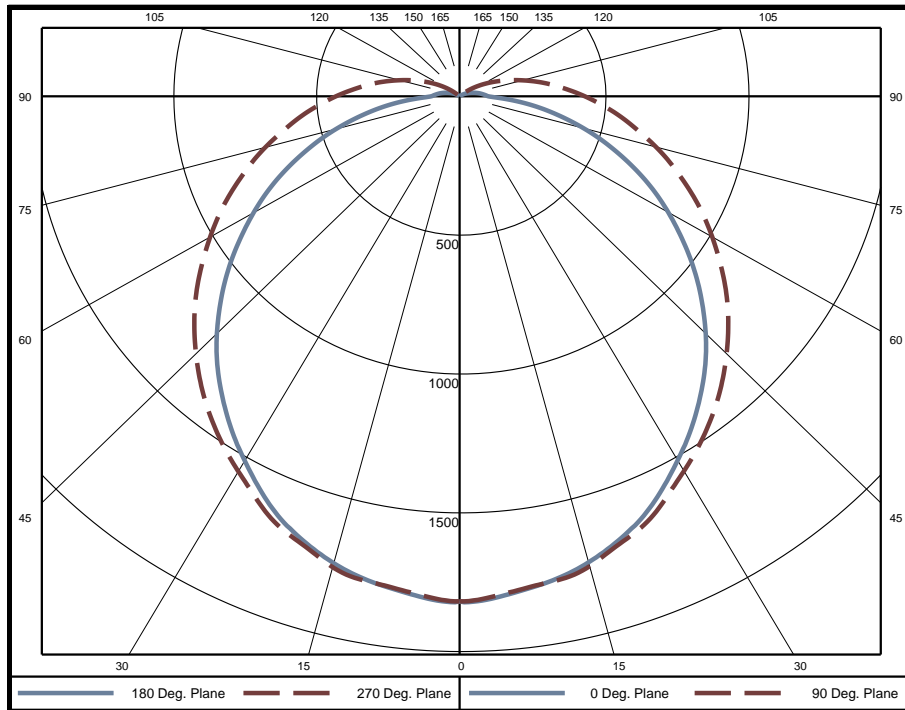
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.8289 A	99.17 W	0.997	60 Hz	4.45 %

Summary of Results

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

Total Lumen Output: 6558 Lumens
Luminaire Efficacy: 66.1 lm/w
Maximum Candela: 1822 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	43.2	0.7%	60-65	421.9	6.4%	120-125	10.0	0.2%
5-10	127.7	1.9%	65-70	382.4	5.8%	125-130	3.2	0.0%
10-15	208.8	3.2%	70-75	337.2	5.1%	130-135	0.3	0.0%
15-20	282.2	4.3%	75-80	288.3	4.4%	135-140	0	0.0%
20-25	347.0	5.3%	80-85	240.2	3.7%	140-145	0	0.0%
25-30	398.4	6.1%	85-90	192.6	2.9%	145-150	0	0.0%
30-35	439.0	6.7%	90-95	151.4	2.3%	150-155	0	0.0%
35-40	467.9	7.1%	95-100	116.7	1.8%	155-160	0	0.0%
40-45	483.5	7.4%	100-105	85.4	1.3%	160-165	0	0.0%
45-50	485.4	7.4%	105-110	58.6	0.9%	165-170	0	0.0%
50-55	475.0	7.2%	110-115	37.5	0.6%	170-175	0	0.0%
55-60	452.6	6.9%	115-120	21.6	0.3%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2314	35.3%
0-60	4211	64.2%
0-90	6073	92.6%
90-180	485	7.4%



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	1819	1819	1819	1819	1819	1819	1819	1819	1819	1819	1819	1819	1819	1819	1819
	5	1804	1800	1797	1797	1799	1797	1797	1800	1804	1800	1797	1797	1799	1797	1800
	10	1776	1773	1773	1776	1777	1776	1773	1773	1776	1773	1773	1776	1777	1776	1773
	15	1737	1735	1739	1747	1750	1747	1739	1735	1737	1735	1739	1747	1750	1747	1739
	20	1681	1680	1685	1692	1695	1692	1685	1680	1681	1680	1685	1692	1695	1692	1685
	25	1607	1608	1617	1629	1635	1629	1617	1608	1607	1608	1617	1629	1635	1629	1608
	30	1515	1517	1531	1548	1557	1548	1531	1517	1515	1517	1531	1548	1557	1548	1517
	35	1422	1427	1446	1470	1482	1470	1446	1427	1422	1427	1446	1470	1482	1470	1446
	40	1321	1327	1353	1384	1400	1384	1353	1327	1321	1327	1353	1384	1400	1384	1353
	45	1210	1219	1251	1292	1309	1292	1251	1219	1210	1219	1251	1292	1309	1292	1251
	50	1090	1101	1145	1194	1214	1194	1145	1101	1090	1101	1145	1194	1214	1194	1145
	55	965	980	1035	1092	1113	1092	1035	980	965	980	1035	1092	1113	1092	1035
	60	839	857	924	987	1011	987	924	857	839	857	924	987	1011	987	924
	65	711	738	817	886	909	886	817	738	711	738	817	886	909	886	817
	70	578	615	708	782	805	782	708	615	578	615	708	782	805	782	708
	75	448	501	606	683	705	683	606	501	448	501	606	683	705	683	606
	80	321	395	509	586	608	586	509	395	321	395	509	586	608	586	509
	85	199	304	421	500	519	500	421	304	199	304	421	500	519	500	421
	90	101	223	338	414	435	414	338	223	101	223	338	414	435	414	338
	95	82	157	263	336	357	336	263	157	82	157	263	336	357	336	263
	100	67	105	198	265	289	265	198	105	67	105	198	265	289	265	198
	105	50	62	138	200	224	200	138	62	50	62	138	200	224	200	138
	110	36	31	87	145	168	145	87	31	36	31	87	145	168	145	87
	115	24	17	45	98	120	98	45	17	24	17	45	98	120	98	45
	120	13	8	14	59	78	59	14	8	13	8	14	59	78	59	14
	125	5	2	0	27	42	27	0	2	5	2	0	27	42	27	0
	130	0	0	0	4	13	4	0	0	0	0	0	4	13	4	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)

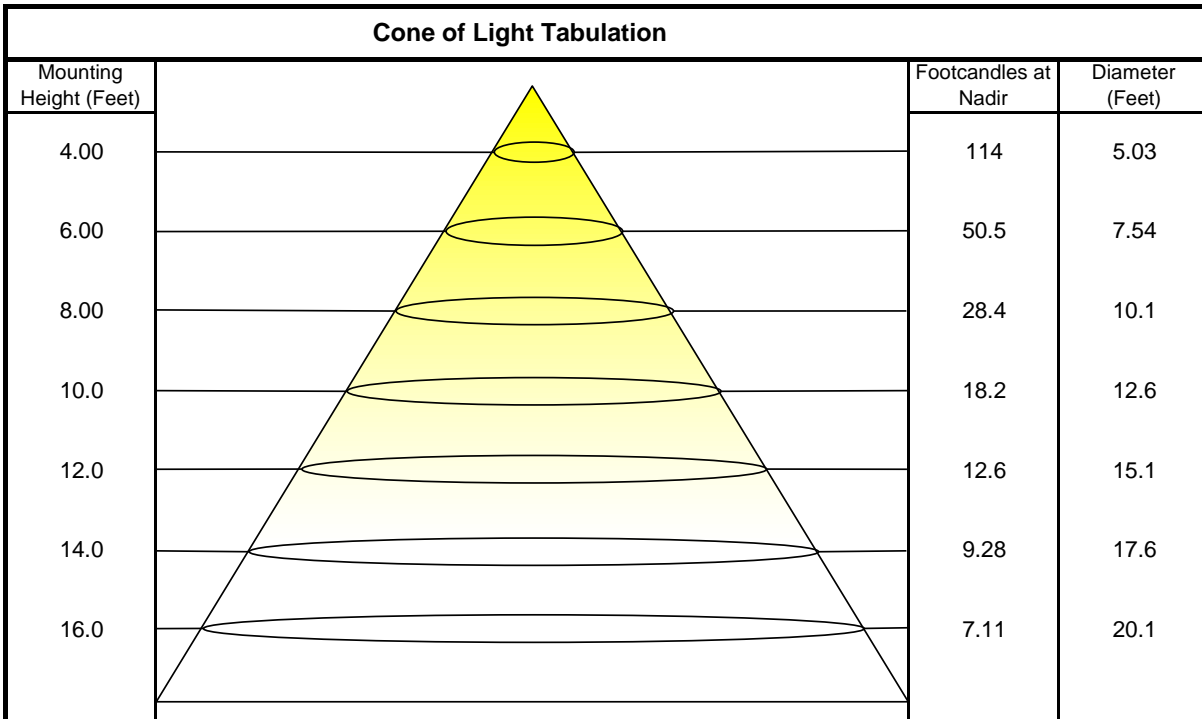
Vertical Angle (Degrees)	0	45	90
	0	15320	15320
	45	13270	12030
	55	12610	11340
	65	11950	10770
	75	11010	10440
	85	9635	10940



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	95	95	95	93
1	105	99	94	89	101	96	91	87	90	86	83	85	82	79	80	77	75	72
2	94	85	77	71	91	82	75	69	77	71	66	73	68	64	69	65	61	58
3	85	74	65	58	82	72	63	57	67	60	55	64	58	53	60	55	51	48
4	78	65	56	48	75	63	54	48	60	52	46	56	50	45	53	48	43	41
5	71	58	48	41	69	56	47	41	53	45	40	50	44	38	48	42	37	35
6	66	52	42	36	63	50	42	35	48	40	34	45	39	33	43	37	33	30
7	61	47	38	31	59	46	37	31	43	36	30	41	35	30	39	33	29	27
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	24
9	53	39	31	25	51	38	30	25	37	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	22	34	27	22	32	26	21	31	25	21	19

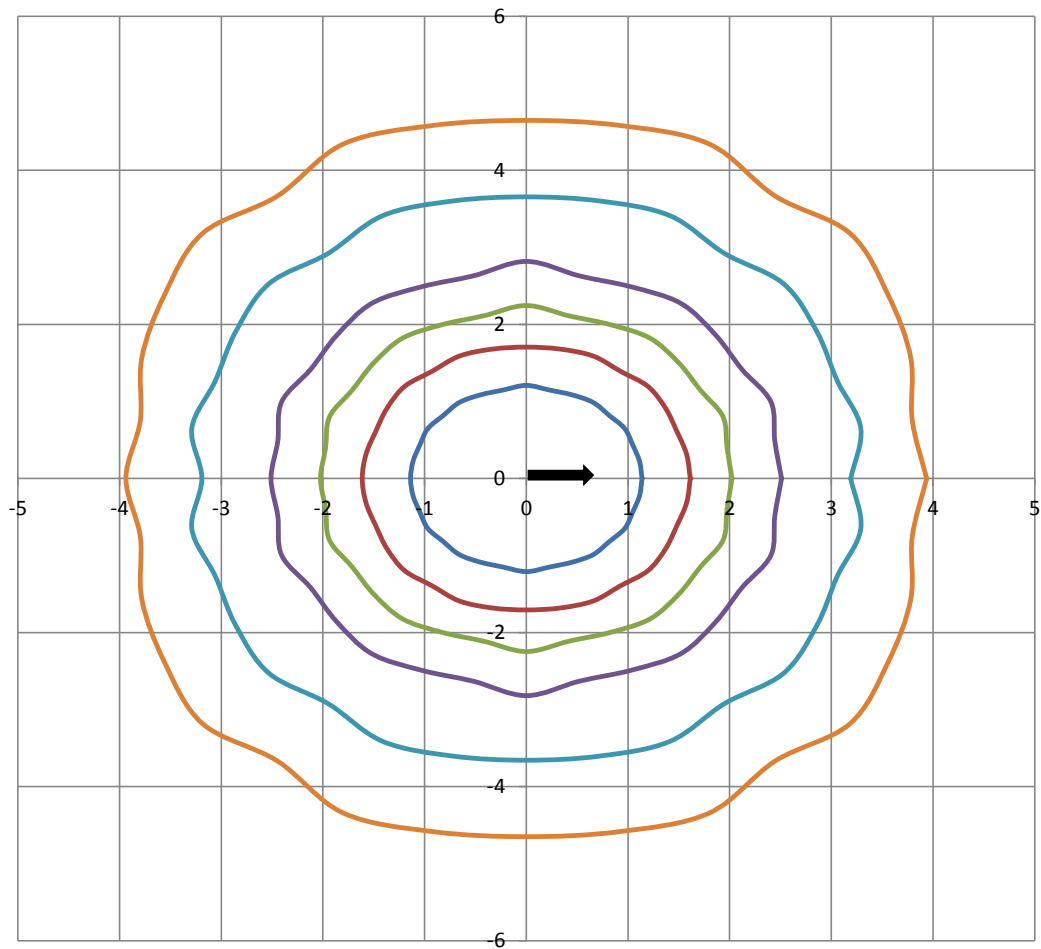
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1819 Candela
Central Cone Intensity:	1811 Candela
Beam Flux:	4297.1 Lumens
Beam Angle (0-180):	114.4 Degrees
Beam Angle (90-270):	129.9 Degrees
Field Angle (0-180):	171.4 Degrees
Field Angle (90-270):	217.4 Degrees





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