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PREPARED FOR: LUMOS CUSTOM LIGHTING

CATALOG NUMBER: RP-5-5-24-UPC-DNF-HO-LED

LUMINAIRE: FABRICATED WHITE PAINTED METAL HOUSING WITH INNER AND OUTER CYLINDRICAL SIDES, 9 WHITE CIRCUIT BOARDS EACH WITH 36 LEDS MOUNTED ON FACING SURFACES OF INNER AND OUTER SIDES, 3-PIECE TRANSLUCENT WHITE FLAT PLASTIC TOP DIFFUSER, FROSTED HOLOGRAPHIC FLAT PLASTIC BOTTOM LENS. LENS FROSTED SIDE OUT. 14" ROUND OPEN CENTER.

LAMPS: THREE HUNDRED TWENTY-FOUR WHITE LIGHT EMITTING DIODES (LEDs), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 120.0 VOLTS, 111.5 WATTS, 0.931 AMPS

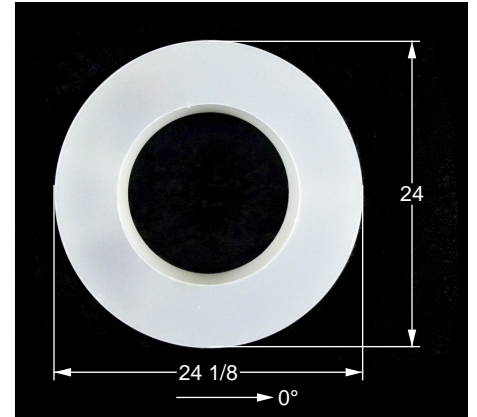
MOUNTING: SUSPENDED

LED DRIVER: AC ELECTRONICS AC-60CD1.4APPU, AC ELECTRONICS AC-40CD1.4APMZ, DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVERS.

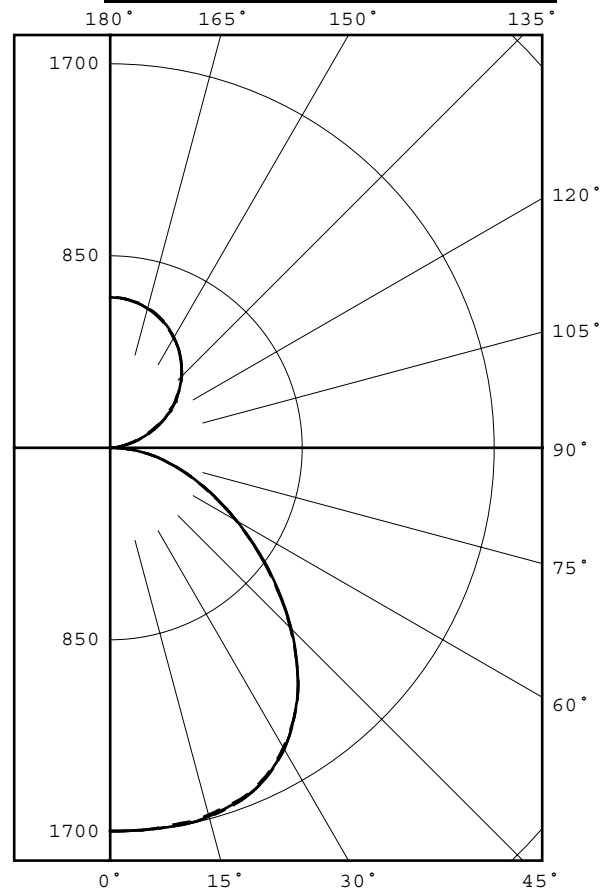
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET



CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	1697	1697	1697	1697	1697	
5	1699	1701	1697	1701	1699	162
15	1682	1687	1689	1689	1692	477
25	1612	1616	1619	1616	1620	744
35	1428	1429	1427	1427	1429	890
45	1127	1134	1133	1131	1130	870
55	797	803	801	798	794	716
65	511	514	509	506	503	507
75	283	286	281	280	277	300
85	98	100	98	98	95	107
90	8	10	9	8	7	
95	22	23	29	29	29	33
105	106	109	119	120	123	123
115	224	228	236	242	238	231
125	350	343	348	350	357	311
135	445	444	446	447	449	344
145	530	528	530	529	529	331
155	596	596	595	594	591	274
165	640	640	639	639	637	181
175	664	665	662	664	664	63
180	666	666	666	666	666	



LEGEND:  
0-deg     - - - - -  
90-deg    = = = = =  
180-deg   - - - - -

ZONAL LUMEN SUMMARY

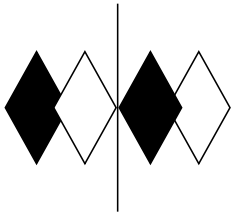
ZONE	LUMENS	%FIXT
0- 30	1383	20.8
0- 40	2274	34.1
0- 60	3860	57.9
0- 90	4774	71.6
90-120	387	5.8
90-130	698	10.5
90-150	1373	20.6
90-180	1891	28.4
0-180	6665	100.0

EFFICACY = 59.8 lm/W

CIE TYPE - SEMI-DIRECT

PLANE : 0-DEG 90-DEG 180-DEG  
SPACING CRITERIA : 1.32 1.32 1.32  
BEAM ANGLE (50%) : 106.7 X 106.9 DEGREES  
FIELD ANGLE (10%) : 161.7 X 161.7 DEGREES

Checked       B. HYRE        
Approved       R. BEATTIE        
Lighting Engineer



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LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	8279.	8323.	8301.
55	7216.	7252.	7189.
65	6281.	6257.	6183.
75	5682.	5642.	5562.
85	5842.	5842.	5663.



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CANDELA DISTRIBUTION  
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	1697	1697	1697	1697	1697	1697	1697	1697	1697
5.0	1699	1698	1701	1699	1697	1702	1701	1696	1699
10.0	1691	1693	1695	1697	1699	1701	1700	1698	1699
15.0	1682	1684	1687	1688	1689	1693	1689	1691	1692
20.0	1660	1662	1663	1664	1665	1664	1664	1668	1668
25.0	1612	1611	1616	1618	1619	1615	1616	1621	1620
30.0	1532	1537	1539	1540	1539	1538	1539	1537	1541
35.0	1428	1427	1429	1430	1427	1422	1427	1426	1429
40.0	1291	1288	1292	1291	1290	1285	1289	1286	1289
45.0	1127	1131	1134	1131	1133	1125	1131	1125	1130
50.0	959	967	965	967	966	956	963	958	960
55.0	797	803	803	802	801	796	798	794	794
60.0	645	651	652	649	647	644	643	641	643
65.0	511	513	514	513	509	508	506	502	503
70.0	390	393	394	392	387	388	384	383	383
75.0	283	286	286	286	281	282	280	278	277
80.0	188	190	190	189	186	187	185	185	183
85.0	98	100	100	99	98	99	98	97	95
90.0	8	9	10	9	9	8	8	8	7
95.0	22	22	23	26	29	29	29	30	29
100.0	55	56	58	62	68	68	70	71	71
105.0	106	106	109	113	119	119	120	122	123
110.0	163	164	167	170	176	176	180	181	181
115.0	224	227	228	232	236	236	242	237	238
120.0	289	287	287	291	292	293	296	301	293
125.0	350	349	343	346	348	352	350	349	357
130.0	395	396	402	399	399	400	399	401	399
135.0	445	444	444	446	446	447	447	447	449
140.0	489	489	489	489	490	491	490	491	489
145.0	530	529	528	527	530	531	529	529	529
150.0	565	565	564	563	564	563	563	562	561
155.0	596	596	596	593	595	595	594	594	591
160.0	621	622	622	621	621	619	619	618	617
165.0	640	640	640	641	639	639	639	637	637
170.0	655	655	655	653	653	655	653	654	656
175.0	664	662	665	662	662	663	664	662	664
180.0	666	666	666	666	666	666	666	666	666



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5-DEGREE
ZONAL LUMEN SUMMARY

Table with 2 columns: Zonal Range and Lumen Value. Rows range from 0-5 to 175-180.

10-DEGREE
ZONAL LUMEN SUMMARY

Table with 2 columns: Zonal Range and Lumen Value. Rows range from 0-10 to 0-180.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	112	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	103	98	94	90	90	97	93	89	86	84	81	78	75	73	71	67	66	64	60
2	93	86	79	74	74	88	81	76	71	73	69	65	66	63	59	59	56	54	51
3	85	76	68	62	62	81	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	52	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	51	45	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	45	39	39	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	40	35	35	58	47	39	34	42	36	31	39	33	29	35	31	27	25
8	57	44	36	31	31	54	42	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	28	50	39	32	27	36	29	25	33	27	24	30	25	22	20
10	50	37	30	25	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

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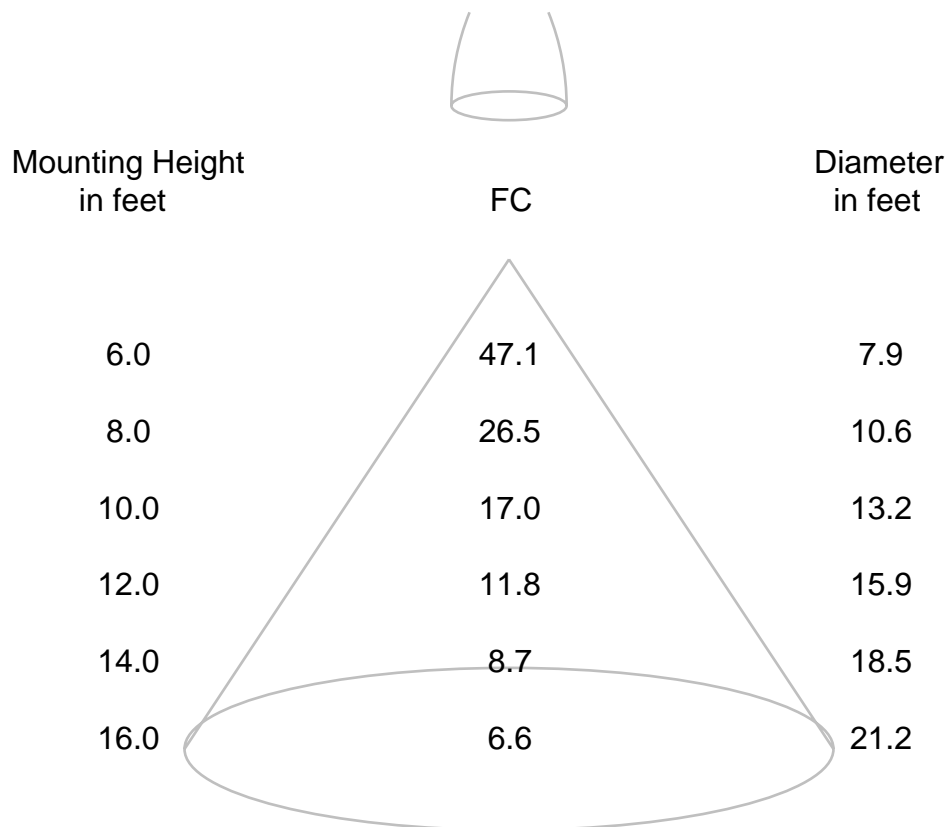
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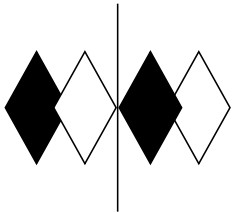
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## CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)



Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.



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