

REPORT NUMBER: ITL93701-GONIOPHOTOMETRY

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ISSUE DATE: 06/23/20

PREPARED FOR: LUMOS LIGHTING

ADDRESS: 145 YUMA STREET
DENVER, CO 80223

CATALOG NUMBER: RP-DN-OWL-36

LUMINAIRE: FABRICATED WHITE PAINTED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND 25.9375" DIAMETER OPEN CENTER, TWO WHITE CIRCUIT BOARDS WITH A TOTAL OF 82 LEDS, FROSTED PLASTIC DROP LENS. LENS FROSTED SIDE OUT.

LAMPS: EIGHTY-TWO WHITE LIGHT EMITTING DIODES (LEDS), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 120.0 VOLTS, 54.8 WATTS, 0.457 AMPS

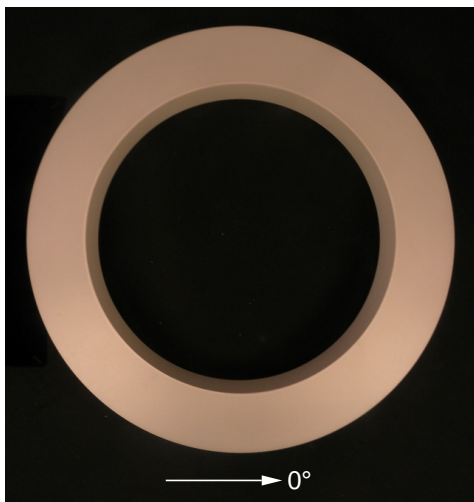
MOUNTING: SUSPENDED

LED DRIVER: AC ELECTRONICS AC-50CD1.4APC7, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 1050mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-19

TEST DISTANCE = 35.0 FEET



THIS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

Approved *C STOUT*

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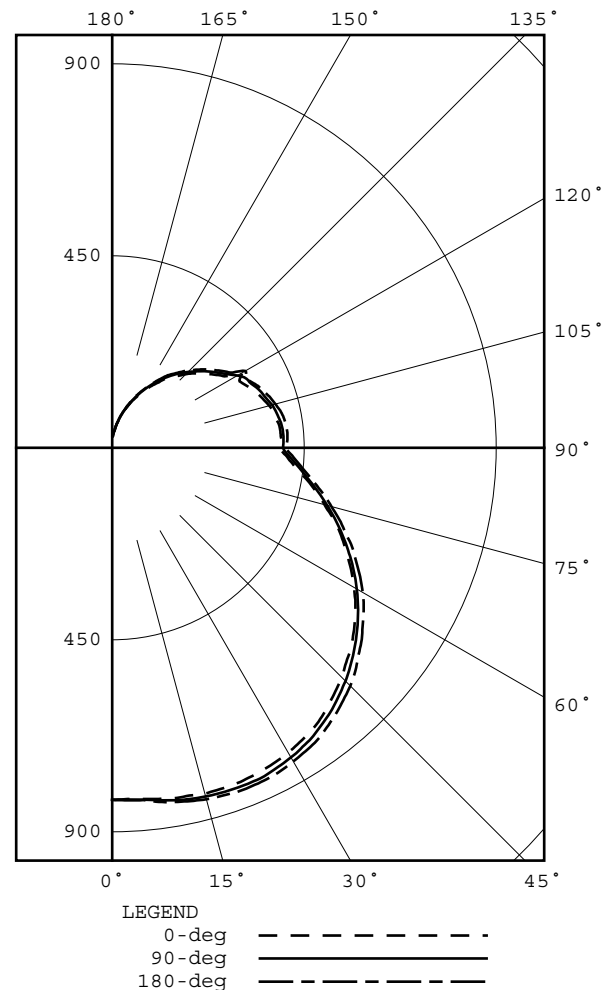
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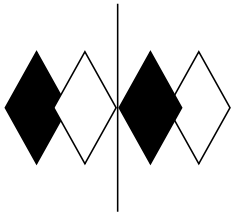
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CANDELA DISTRIBUTION						FLUX
	0.0	45.0	90.0	135.0	180.0	
0	825	825	825	825	825	
5	826	825	828	830	829	79
15	839	842	846	851	853	240
25	834	838	848	854	857	391
35	811	815	823	832	837	516
45	761	765	773	782	789	598
55	695	698	703	712	717	631
65	610	612	617	625	631	614
75	515	517	522	527	532	553
85	424	427	432	436	440	474
90	394	397	401	406	408	
95	396	397	402	409	412	438
105	381	382	388	394	396	410
115	346	349	358	361	362	355
125	298	300	306	312	314	277
135	244	246	252	255	257	195
145	186	190	193	196	197	122
155	129	131	133	135	135	62
165	76	77	77	78	78	23
175	33	33	33	33	32	4
180	28	28	28	28	28	

ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	710	11.9
0- 40	1226	20.5
0- 60	2454	41.0
0- 90	4095	68.5
90-120	1203	20.1
90-130	1480	24.8
90-150	1797	30.0
90-180	1886	31.5
0-180	5980	100.0

EFFICACY = 109.1 lm/W
 CIE TYPE - SEMI-DIRECT
 PLANE : 0-DEG 90-DEG 180-DEG
 SPACING CRITERIA : 1.50 1.51 1.53
 BEAM ANGLE (50%) : 170.9 X 170.8 DEGREES
 FIELD ANGLE (10%) : 326.6 X 326.9 DEGREES





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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

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LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	1181.	1199.	1224.
55	1078.	1091.	1112.
65	946.	957.	979.
75	799.	810.	825.
85	658.	670.	683.



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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	825	825	825	825	825	825	825	825	825
5.0	826	826	825	829	828	828	830	829	829
10.0	834	834	836	835	839	840	842	842	843
15.0	839	840	842	843	846	848	851	852	853
20.0	839	839	842	845	849	852	855	856	858
25.0	834	836	838	844	848	852	854	856	857
30.0	825	827	829	834	838	842	845	847	849
35.0	811	812	815	817	823	827	832	834	837
40.0	788	789	792	795	801	806	811	813	815
45.0	761	763	765	769	773	777	782	787	789
50.0	730	731	733	736	740	744	750	753	754
55.0	695	696	698	698	703	707	712	717	717
60.0	654	656	656	659	662	667	672	675	678
65.0	610	612	612	615	617	621	625	629	631
70.0	566	565	566	566	570	574	579	582	582
75.0	515	516	517	519	522	525	527	531	532
80.0	469	468	470	473	474	476	480	481	483
85.0	424	427	427	430	432	434	436	439	440
90.0	394	395	397	397	401	403	406	407	408
95.0	396	396	397	398	402	405	409	411	412
100.0	391	391	393	394	397	400	403	406	408
105.0	381	381	382	385	388	390	394	397	396
110.0	365	366	366	368	374	376	378	382	381
115.0	346	347	349	351	358	357	361	366	362
120.0	348	343	350	346	339	352	363	358	360
125.0	298	299	300	303	306	309	312	314	314
130.0	271	272	274	277	279	282	284	287	286
135.0	244	245	246	247	252	253	255	256	257
140.0	216	217	218	220	223	225	227	228	227
145.0	186	188	190	190	193	194	196	196	197
150.0	158	158	159	161	162	164	165	166	165
155.0	129	130	131	131	133	134	135	135	135
160.0	102	102	102	103	104	105	106	106	105
165.0	76	77	77	77	77	78	78	78	78
170.0	53	53	53	53	53	53	53	53	52
175.0	33	33	33	33	33	33	33	32	32
180.0	28	28	28	28	28	28	28	28	28



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	20
5- 10	60
10- 15	100
15- 20	140
20- 25	178
25- 30	213
30- 35	245
35- 40	271
40- 45	292
45- 50	306
50- 55	314
55- 60	316
60- 65	312
65- 70	302
70- 75	286
75- 80	267
80- 85	246
85- 90	227
90- 95	220
95-100	218
100-105	211
105-110	199
110-115	185
115-120	171
120-125	150
125-130	127
130-135	107
135-140	88
140-145	70
145-150	52
150-155	37
155-160	25
160-165	15
165-170	8
170-175	3
175-180	1

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	79
0- 20	319
0- 30	710
0- 40	1226
0- 50	1823
0- 60	2454
0- 70	3068
0- 80	3621
0- 90	4095
0-100	4533
0-110	4943
0-120	5298
0-130	5575
0-140	5770
0-150	5891
0-160	5954
0-170	5977
0-180	5980



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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	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	98	92	87	82	82	92	87	82	77	77	73	69	67	64	61	59	56	54	50
2	88	78	70	64	64	82	74	67	61	65	59	54	57	52	48	49	46	43	39
3	79	68	59	51	51	74	64	55	49	56	49	44	49	44	39	43	38	35	31
4	72	59	50	42	42	67	56	47	40	49	42	37	43	37	33	37	33	29	26
5	66	52	43	36	36	61	49	41	34	44	36	31	38	32	28	33	28	25	22
6	60	47	37	31	31	56	44	35	29	39	32	26	34	28	24	30	25	21	18
7	56	42	33	27	27	52	40	31	25	35	28	23	31	25	21	27	22	19	16
8	52	38	29	23	23	48	36	28	22	32	25	20	28	22	18	25	20	16	14
9	48	35	26	21	21	45	33	25	20	29	23	18	26	20	16	23	18	15	12
10	45	32	24	18	18	42	30	23	18	27	20	16	24	18	15	21	16	13	11

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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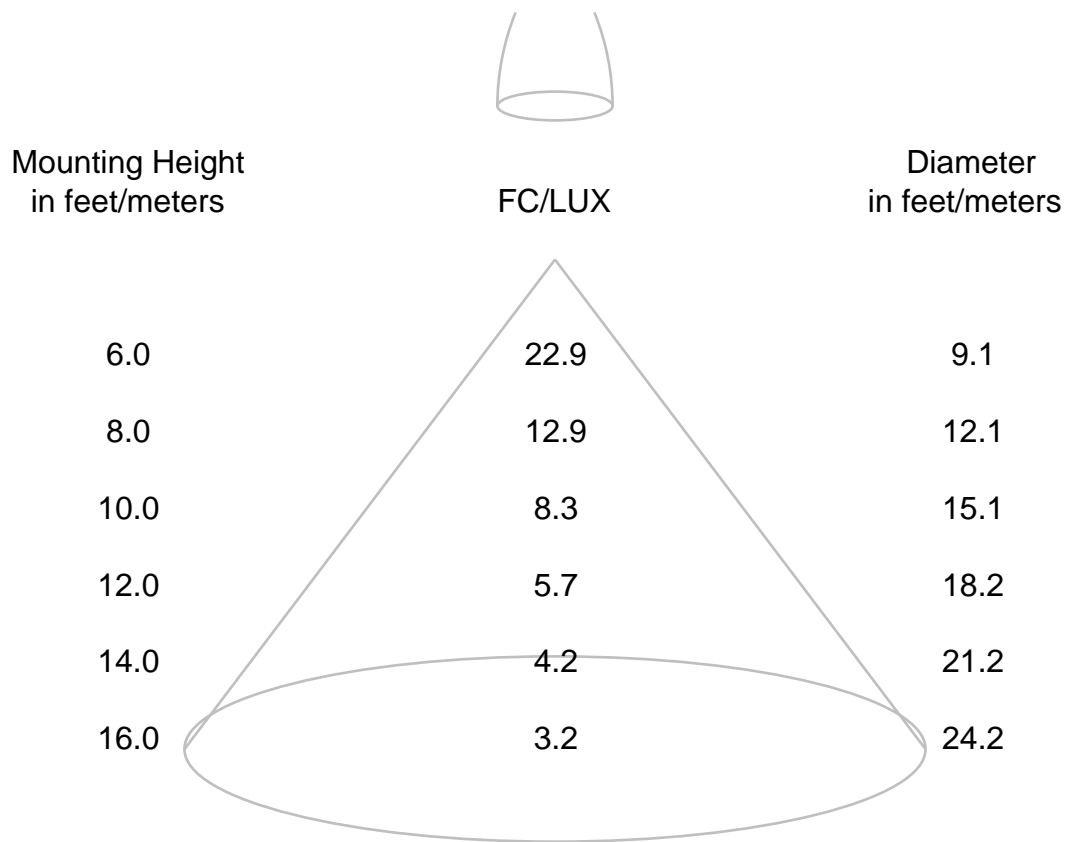
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CONE OF LIGHT DIAGRAM

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



If distances are feet, results are footcandles.

If distances are meters, results are lux.

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