

REPORT NUMBER: ITL93703-GONIOPHOTOMETRY

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ISSUE DATE: 06/24/20

PREPARED FOR: LUMOS LIGHTING

ADDRESS: 145 YUMA STREET
DENVER, CO 80223

CATALOG NUMBER: RPM-IWL-36

LUMINAIRE: FABRICATED WHITE PAINTED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND 32.6875" DIAMETER OPEN CENTER, TWO WHITE CIRCUIT BOARDS WITH A TOTAL OF 112 LEDS, FROSTED PLASTIC INNER LENS WITH TWO TRANSLUCENT WHITE PLASTIC INTERIOR MOUNTING RINGS. LENS FROSTED SIDE IN.

LAMPS: ONE HUNDRED TWELVE WHITE LIGHT EMITTING DIODES (LEDS), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 120.0 VOLTS, 56.8 WATTS, 0.474 AMPS

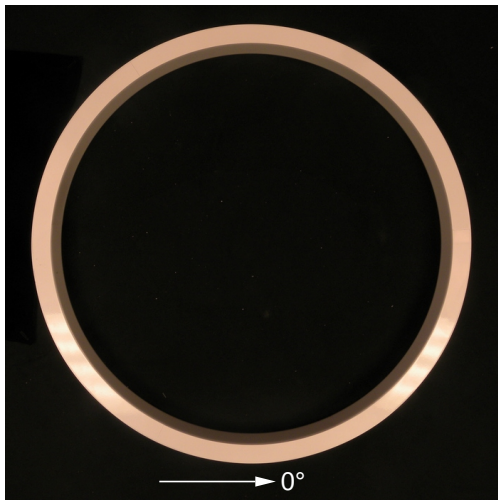
MOUNTING: SUSPENDED

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 1400mA 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.

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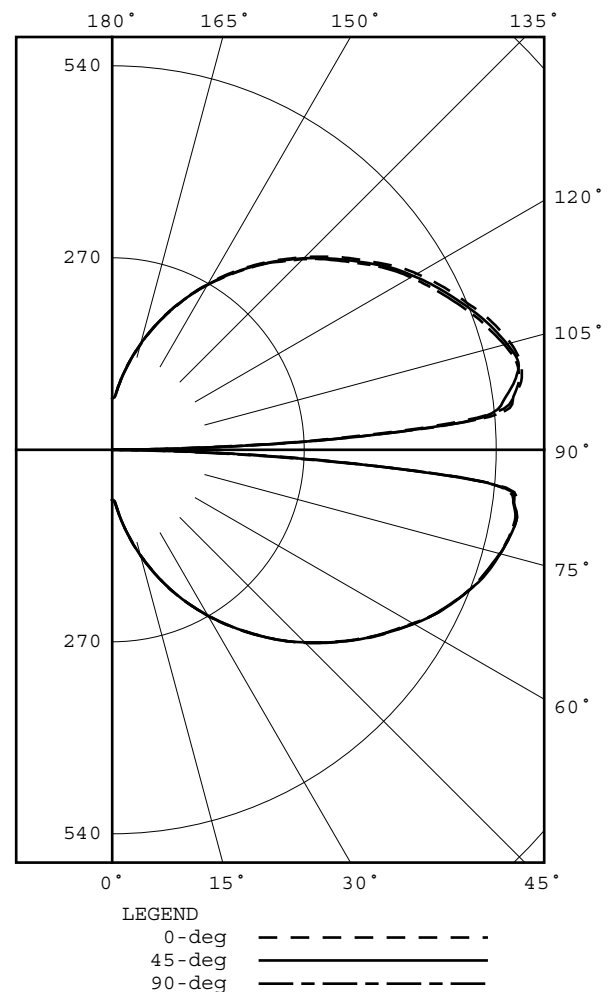
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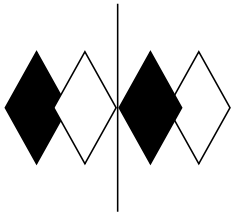
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CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	70	70	70	70	70	
5	84	84	85	85	86	9
15	153	153	154	154	154	45
25	231	230	231	231	231	108
35	307	307	307	308	308	194
45	383	383	383	384	384	297
55	456	456	455	456	455	409
65	521	522	521	521	520	516
75	565	567	565	565	564	597
85	530	527	527	527	530	445
90	0	0	0	0	0	
95	515	515	522	528	533	452
105	580	579	575	570	571	605
115	526	524	520	516	515	516
125	458	457	454	452	451	408
135	383	382	381	379	379	296
145	308	307	306	306	305	193
155	230	230	230	229	229	107
165	154	154	154	154	153	45
175	87	86	86	86	86	9
180	72	72	72	72	72	

ZONAL ZONE	LUMEN LUMENS	SUMMARY %FIXT
0- 30	162	3.1
0- 40	356	6.8
0- 60	1062	20.2
0- 90	2620	49.9
90-120	1574	30.0
90-130	1982	37.7
90-150	2471	47.0
90-180	2632	50.1
0-180	5252	100.0

EFFICACY = 92.5 lm/W
 CIE TYPE - GENERAL DIFFUSE
 PLANE : 0-DEG 90-DEG
 SPACING CRITERIA : 4.52 4.52
 BEAM ANGLE (50%) : 54.1 X 53.8 DEGREES
 FIELD ANGLE (10%) : 178.9 X 179.0 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	AVERAGE	AVERAGE	AVERAGE	
IN DEG	0-DEG	45-DEG	90-DEG	
45	594.	594.	596.	
55	708.	706.	706.	
65	808.	808.	807.	
75	877.	877.	875.	
85	822.	818.	822.	



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	70	70	70	70	70
5.0	84	84	85	85	86
10.0	118	117	117	117	117
15.0	153	153	154	154	154
20.0	192	192	192	192	192
25.0	231	230	231	231	231
30.0	269	269	269	269	270
35.0	307	307	307	308	308
40.0	346	345	346	346	346
45.0	383	383	383	384	384
50.0	419	420	420	420	420
55.0	456	456	455	456	455
60.0	489	489	490	490	488
65.0	521	522	521	521	520
70.0	546	547	547	546	546
75.0	565	567	565	565	564
80.0	577	578	577	576	575
85.0	530	527	527	527	530
90.0	0	0	0	0	0
95.0	515	515	522	528	533
100.0	585	587	576	581	581
105.0	580	579	575	570	571
110.0	556	553	550	544	545
115.0	526	524	520	516	515
120.0	495	493	489	486	485
125.0	458	457	454	452	451
130.0	421	420	417	415	414
135.0	383	382	381	379	379
140.0	346	346	344	343	343
145.0	308	307	306	306	305
150.0	269	269	268	268	268
155.0	230	230	230	229	229
160.0	192	193	191	191	191
165.0	154	154	154	154	153
170.0	119	118	118	118	118
175.0	87	86	86	86	86
180.0	72	72	72	72	72



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	2
5- 10	7
10- 15	16
15- 20	29
20- 25	44
25- 30	63
30- 35	85
35- 40	109
40- 45	135
45- 50	162
50- 55	190
55- 60	218
60- 65	246
65- 70	270
70- 75	291
75- 80	306
80- 85	305
85- 90	140
90- 95	149
95-100	304
100-105	311
105-110	294
110-115	271
115-120	246
120-125	218
125-130	190
130-135	161
135-140	134
140-145	109
145-150	85
150-155	63
155-160	44
160-165	29
165-170	16
170-175	7
175-180	2

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	9
0- 20	54
0- 30	162
0- 40	356
0- 50	653
0- 60	1062
0- 70	1579
0- 80	2175
0- 90	2620
0-100	3072
0-110	3677
0-120	4194
0-130	4602
0-140	4897
0-150	5091
0-160	5198
0-170	5243
0-180	5252



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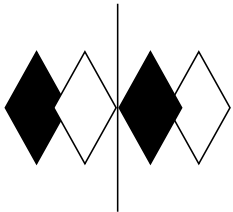
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	93	86	81	75	75	85	79	74	69	66	62	58	53	50	47	42	40	37	32
2	82	72	64	57	57	75	66	59	52	54	49	44	43	39	35	33	30	27	22
3	74	62	52	45	45	67	56	48	41	46	39	34	36	31	27	28	24	21	16
4	66	53	44	36	36	60	49	40	33	40	33	27	31	26	22	24	20	16	12
5	60	47	37	30	30	55	42	34	27	35	28	23	27	22	18	21	16	13	10
6	55	41	32	25	25	50	38	29	23	31	24	19	24	19	15	18	14	11	8
7	51	37	28	21	21	46	34	25	20	27	21	16	22	16	13	16	12	9	6
8	47	33	24	18	18	42	30	22	17	25	18	14	20	15	11	15	11	8	5
9	43	30	22	16	16	39	27	20	15	22	16	12	18	13	9	14	10	7	4
10	40	27	19	14	14	37	25	18	13	21	15	10	16	12	8	12	9	6	4

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.

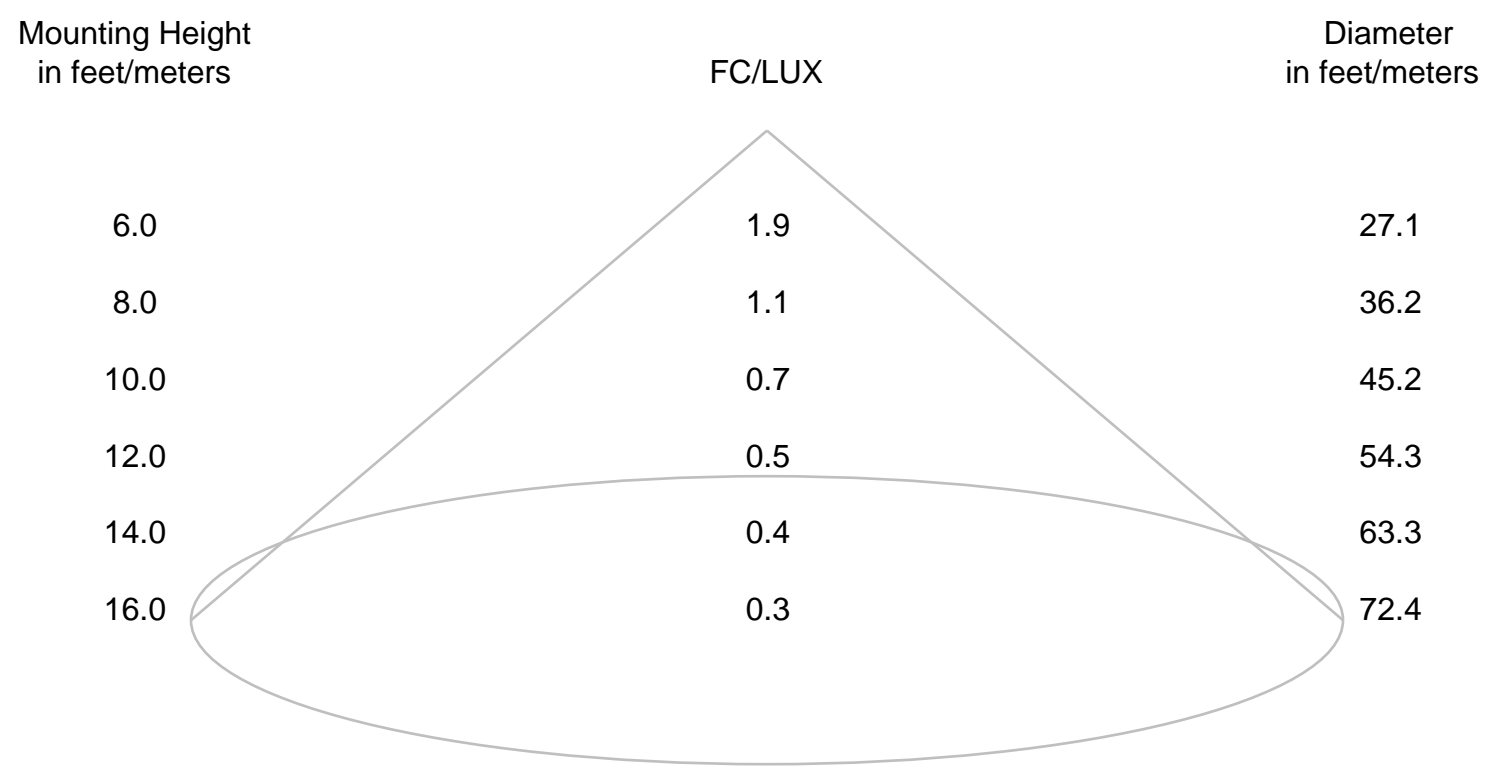


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CONE OF LIGHT DIAGRAM

(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.