

REPORT NUMBER: ITL93477-GONIOPHOTOMETRY

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ISSUE DATE: 06/02/20

PREPARED FOR: LUMOS LIGHTING

ADDRESS: 2385 S. Delaware St
DENVER, CO 80223

CATALOG NUMBER: RP-DN-48

LUMINAIRE: FABRICATED WHITE PAINTED METAL HOUSING WITH INNER AND OUTER CYLINDRICAL SIDES, 4 WHITE CIRCUIT BOARDS WITH A TOTAL OF 144 LEDS MOUNTED ON INNER FACING SURFACE OF OUTER SIDES, FROSTED PLASTIC BOTTOM LENS WITH TRANSLUCENT WHITE VERTICAL INTERIOR AND EXTERIOR SPRING MOUNTING RING. LENS FROSTED SIDE OUT. 37" ROUND OPEN CENTER.

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

INPUT ELECTRICAL: 120.0 VOLTS, 74.2 WATTS, 0.619 AMPS

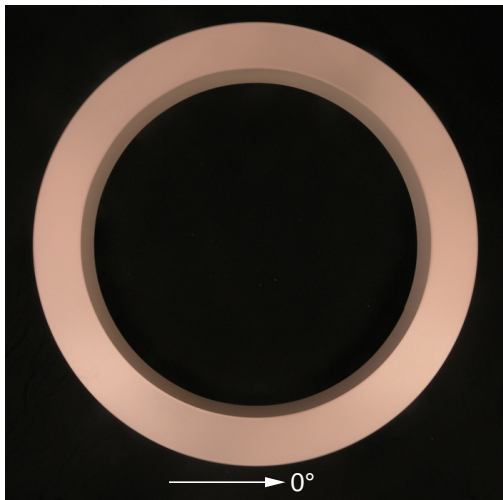
MOUNTING: SUSPENDED

LED DRIVERS: TWO AC ELECTRONICS AC-50CD1.4APC7, DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES BOTH DRIVERS PROGRAMMED FOR 1400mA OUTPUT.

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

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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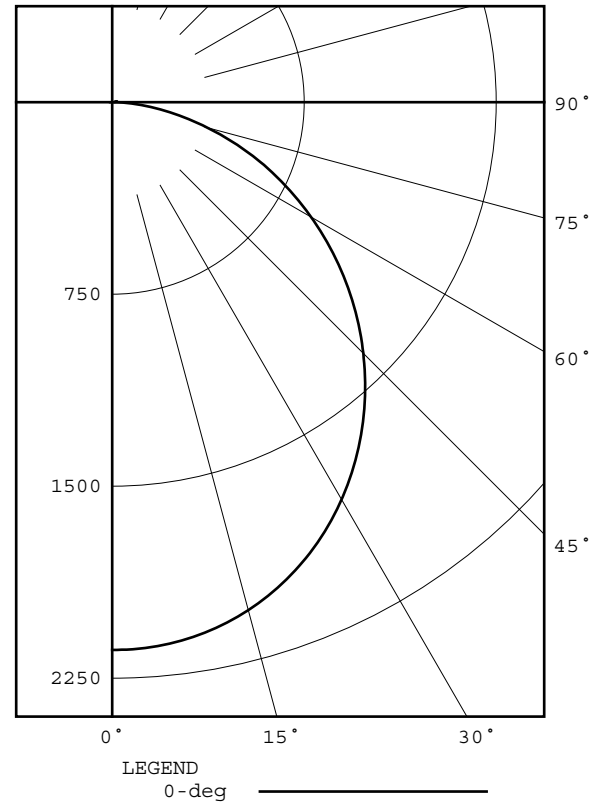
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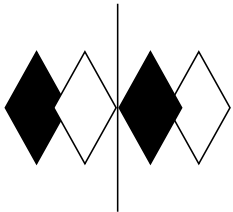
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DEG	CANDELA	LUMENS
0	2140	
5	2131	203
15	2054	580
25	1898	874
35	1670	1044
45	1387	1070
55	1067	953
65	726	719
75	386	410
85	103	119
90	9	
95	9	11
105	20	20
115	18	18
125	15	14
135	15	12
145	11	8
155	9	4
165	9	3
175	7	1
180	7	

ZONAL ZONE	LUMEN LUMENS	SUMMARY %FIXT
0- 30	1656	27.3
0- 40	2701	44.6
0- 60	4723	77.9
0- 90	5971	98.5
90-120	49	0.8
90-130	63	1.0
90-150	82	1.4
90-180	90	1.5
0-180	6061	100.0

EFFICACY = 81.7 lm/W
 CIE TYPE - DIRECT
 SPACING CRITERION: 1.24
 BEAM ANGLE (50%) : 109.8 DEGREES
 FIELD ANGLE (10%) : 161.3 DEGREES





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

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LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE
45	4479.
55	4198.
65	3841.
75	3252.
85	2314.



NVLAP LAB CODE: 200925-0

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CANDELA DISTRIBUTION

0.0	2140
5.0	2131
10.0	2103
15.0	2054
20.0	1986
25.0	1898
30.0	1792
35.0	1670
40.0	1535
45.0	1387
50.0	1230
55.0	1067
60.0	897
65.0	726
70.0	555
75.0	386
80.0	231
85.0	103
90.0	9
95.0	9
100.0	17
105.0	20
110.0	19
115.0	18
120.0	17
125.0	15
130.0	15
135.0	15
140.0	15
145.0	11
150.0	10
155.0	9
160.0	9
165.0	9
170.0	8
175.0	7
180.0	7



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	51
5- 10	151
10- 15	247
15- 20	333
20- 25	407
25- 30	467
30- 35	510
35- 40	534
40- 45	541
45- 50	529
50- 55	499
55- 60	453
60- 65	394
65- 70	324
70- 75	246
75- 80	164
80- 85	90
85- 90	30
90- 95	5
95-100	6
100-105	10
105-110	10
110-115	9
115-120	9
120-125	7
125-130	7
130-135	6
135-140	6
140-145	4
145-150	3
150-155	2
155-160	2
160-165	1
165-170	1
170-175	1
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	203
0- 20	782
0- 30	1656
0- 40	2701
0- 50	3770
0- 60	4723
0- 70	5442
0- 80	5852
0- 90	5971
0-100	5982
0-110	6002
0-120	6020
0-130	6034
0-140	6046
0-150	6053
0-160	6057
0-170	6060
0-180	6061



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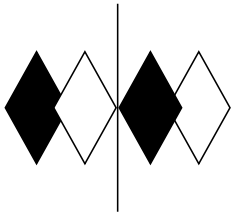
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	108	104	99	95	106	101	97	94	97	93	91	92	90	87	89	87	85	82
2	99	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	57	53	61	56	52	49
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	49	45	43
6	70	57	48	41	68	56	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

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.

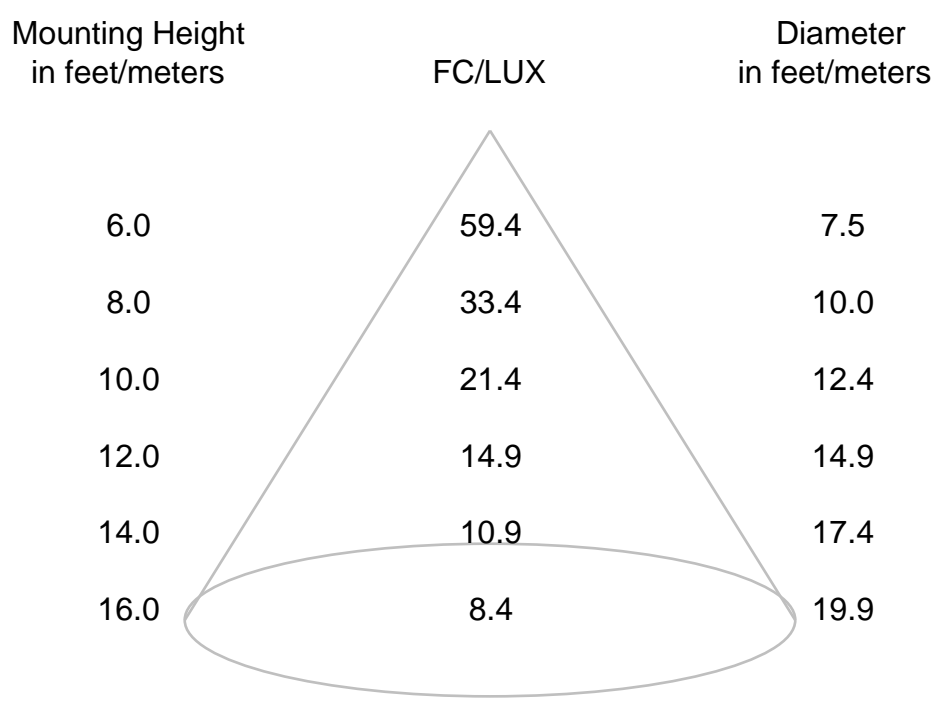


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CONE OF LIGHT DIAGRAM

(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.