

REPORT NUMBER: ITL89605-GONIOPHOTOMETRY

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ISSUE DATE: 09/08/17

PREPARED FOR: LUMOS LIGHTING

ADDRESS: 145 YUMA STREET
DENVER, CO 80223

CATALOG NUMBER: RP-DN-36

LUMINAIRE: FABRICATED WHITE PAINTED METAL HOUSING WITH INNER AND OUTER CYLINDRICAL SIDES, 8 WHITE CIRCUIT BOARDS WITH A TOTAL OF 168 LEDS MOUNTED ON INNER FACING SURFACE OF OUTER SIDES, TRANSLUCENT WHITE PLASTIC BOTTOM LENS. 26" ROUND OPEN CENTER. DRIVER IS EXPOSED IN THE OPTICAL COMPARTMENT ON THE 180-DEGREE SIDE OF FIXTURE.

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

INPUT ELECTRICAL: 120.0 VOLTS, 52.4 WATTS, 0.437 AMPS

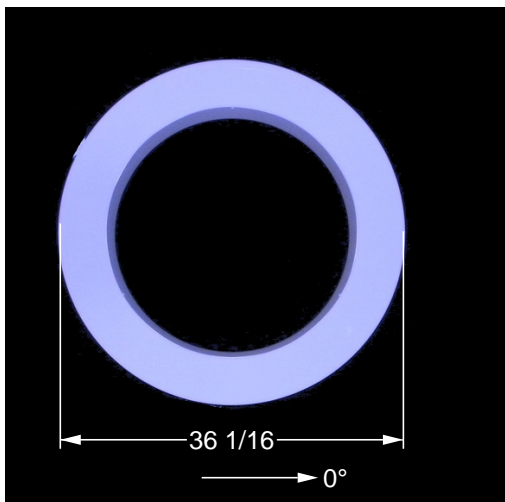
MOUNTING: SUSPENDED

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 600mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-08

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.

Checked	<i>N WHITE</i> TECHNICIAN
Approved	<i>R BERGIN</i> LIGHTING ENGINEER

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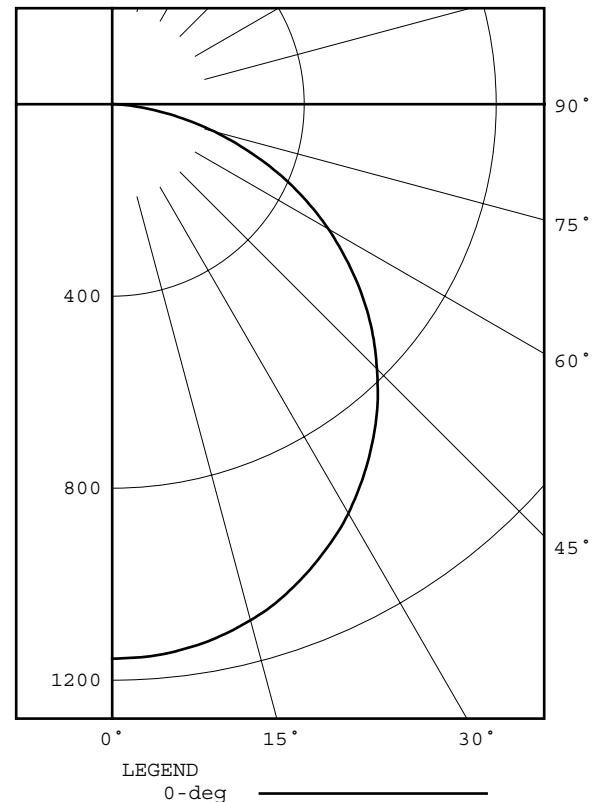
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DEG	CANDELA	LUMENS
0	1155	
5	1151	109
15	1113	314
25	1035	477
35	923	577
45	780	602
55	612	547
65	423	418
75	220	233
85	44	56
90	5	
95	4	4
105	6	6
115	6	6
125	5	4
135	4	3
145	4	3
155	4	2
165	3	1
175	2	0
180	2	

ZONAL ZONE	LUMEN LUMENS	SUMMARY %FIXT
0- 30	901	26.8
0- 40	1478	44.0
0- 60	2627	78.1
0- 90	3333	99.2
90-120	16	0.5
90-130	20	0.6
90-150	26	0.8
90-180	28	0.8
0-180	3362	100.0

EFFICACY = 64.2 lm/W
 CIE TYPE - DIRECT
 SPACING CRITERION: 1.26
 BEAM ANGLE (50%) : 113.8 DEGREES
 FIELD ANGLE (10%) : 160.9 DEGREES





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CANDELA DISTRIBUTION

0.0	1155
5.0	1151
10.0	1137
15.0	1113
20.0	1079
25.0	1035
30.0	984
35.0	923
40.0	856
45.0	780
50.0	700
55.0	612
60.0	520
65.0	423
70.0	321
75.0	220
80.0	123
85.0	44
90.0	5
95.0	4
100.0	4
105.0	6
110.0	6
115.0	6
120.0	5
125.0	5
130.0	4
135.0	4
140.0	4
145.0	4
150.0	4
155.0	4
160.0	3
165.0	3
170.0	3
175.0	2
180.0	2



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5-DEGREE
 ZONAL LUMEN SUMMARY

0- 5	28
5- 10	82
10- 15	133
15- 20	181
20- 25	222
25- 30	256
30- 35	281
35- 40	297
40- 45	303
45- 50	299
50- 55	285
55- 60	262
60- 65	229
65- 70	189
70- 75	141
75- 80	91
80- 85	44
85- 90	12
90- 95	2
95-100	2
100-105	3
105-110	3
110-115	3
115-120	3
120-125	2
125-130	2
130-135	2
135-140	1
140-145	1
145-150	1
150-155	1
155-160	1
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
 ZONAL LUMEN SUMMARY

0- 10	109
0- 20	424
0- 30	901
0- 40	1478
0- 50	2080
0- 60	2627
0- 70	3045
0- 80	3277
0- 90	3333
0-100	3338
0-110	3344
0-120	3349
0-130	3353
0-140	3357
0-150	3359
0-160	3361
0-170	3362
0-180	3362



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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	119	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	101	101	101	99
1	109	104	99	96	106	101	98	94	97	94	91	93	90	88	89	87	85	85	83	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69	69	69
3	90	79	71	64	87	78	70	64	74	68	63	72	66	61	69	64	60	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49	49	49
5	75	63	53	47	73	61	53	47	59	52	46	57	50	45	55	49	45	43	43	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33	33	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	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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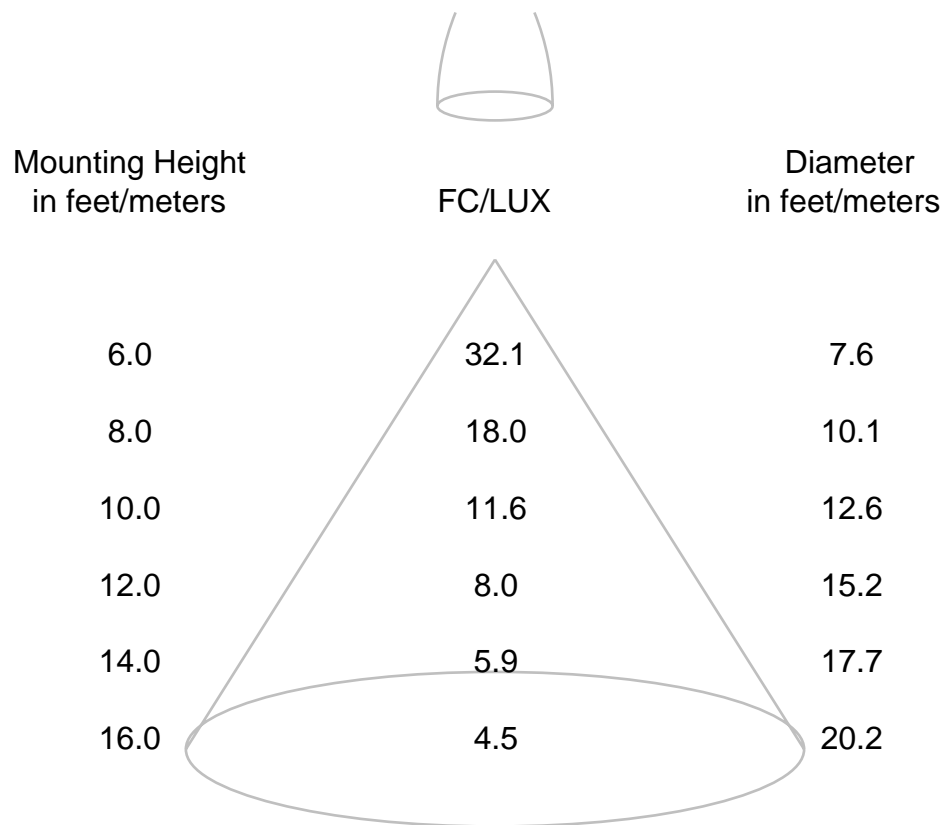
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CONE OF LIGHT DIAGRAM

(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.