



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

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ISSUE DATE: 07/25/20

PREPARED FOR: LUMOS LIGHTING

ADDRESS: 2385 S. DELAWARE STREET  
DENVER, CO 80223

CATALOG NUMBER: RM42-48

LUMINAIRE: EXTRUDED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND CAST WHITE PAINTED METAL END CAPS, FORMED WHITE PAINTED METAL REFLECTOR, ONE WHITE CIRCUIT BOARD WITH 47 LEDS, TRANSLUCENT PLASTIC DROP LENS WITH TRANSLUCENT WHITE INTERIOR MOUNTING STRIPS. SIX DIFFUSE METAL MOUNTING SPRINGS. LENS FROSTED SIDE OUT.

LAMPS: FORTY-SEVEN WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 27.0 WATTS, 0.225 AMPS

MOUNTING: SUSPENDED

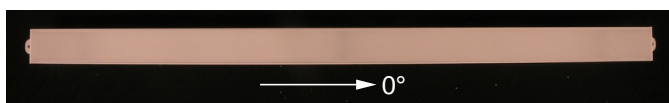
LED DRIVER: AC ELECTRONICS AC-50CD1.4APC7, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 1200mA OUTPUT.

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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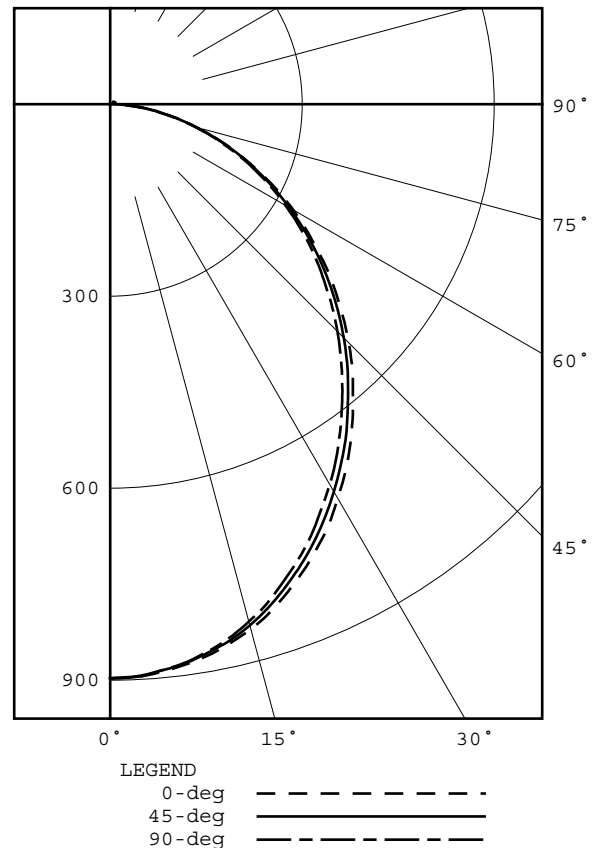
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CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	897	897	897	897	897	
5	891	890	889	889	889	84
15	849	842	843	839	837	237
25	765	754	754	747	743	346
35	653	643	641	631	626	399
45	527	520	516	508	502	397
55	394	391	387	381	379	346
65	264	263	260	256	255	257
75	139	140	139	139	138	148
85	35	37	39	41	41	45
90	0	3	6	9	9	
95	0	3	6	8	9	6
105	0	3	6	8	9	5
115	0	2	5	7	8	4
125	0	2	4	6	7	3
135	0	2	3	5	5	3
145	0	2	3	4	4	2
155	0	2	2	3	3	1
165	0	2	2	2	2	1
175	0	2	2	2	2	0
180	0	0	0	0	0	

ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	668	29.2
0- 40	1067	46.7
0- 60	1809	79.2
0- 90	2259	98.9
90-120	16	0.7
90-130	19	0.8
90-150	23	1.0
90-180	25	1.1
0-180	2284	100.0

EFFICACY = 84.6 lm/W  
 CIE TYPE - DIRECT PLANE : 0-DEG 90-DEG  
 SPACING CRITERIA : 1.18 1.15  
 BEAM ANGLE (50%) : 102.0 X 98.5 DEGREES  
 FIELD ANGLE (10%) : 158.8 X 159.3 DEGREES





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PLANE	:	0-DEG	90-DEG
LUMINOUS LENGTH	:	48.000	2.625
HEIGHT OF SIDE	:	0.125	0.000

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	9168.	8684.	8336.
55	8450.	7919.	7611.
65	7685.	7058.	6735.
75	6607.	5869.	5569.
85	4940.	3975.	3747.



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CANDELA DISTRIBUTION  
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	897	897	897	897	897
5.0	891	890	889	889	889
10.0	875	872	871	870	869
15.0	849	842	843	839	837
20.0	811	802	802	797	793
25.0	765	754	754	747	743
30.0	711	700	699	690	686
35.0	653	643	641	631	626
40.0	590	581	578	568	564
45.0	527	520	516	508	502
50.0	461	455	452	443	439
55.0	394	391	387	381	379
60.0	330	325	323	317	316
65.0	264	263	260	256	255
70.0	200	199	199	195	195
75.0	139	140	139	139	138
80.0	83	84	86	86	86
85.0	35	37	39	41	41
90.0	0	3	6	9	9
95.0	0	3	6	8	9
100.0	0	3	6	8	9
105.0	0	3	6	8	9
110.0	0	2	5	7	8
115.0	0	2	5	7	8
120.0	0	2	5	7	7
125.0	0	2	4	6	7
130.0	0	2	4	5	6
135.0	0	2	3	5	5
140.0	0	2	3	4	5
145.0	0	2	3	4	4
150.0	0	2	3	3	4
155.0	0	2	2	3	3
160.0	0	2	2	3	3
165.0	0	2	2	2	2
170.0	0	2	2	2	2
175.0	0	2	2	2	2
180.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	21
5- 10	63
10- 15	102
15- 20	135
20- 25	163
25- 30	183
30- 35	197
35- 40	203
40- 45	202
45- 50	195
50- 55	182
55- 60	164
60- 65	141
65- 70	116
70- 75	88
75- 80	60
80- 85	33
85- 90	11
90- 95	3
95-100	3
100-105	3
105-110	3
110-115	2
115-120	2
120-125	2
125-130	2
130-135	1
135-140	1
140-145	1
145-150	1
150-155	1
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	84
0- 20	321
0- 30	668
0- 40	1067
0- 50	1464
0- 60	1809
0- 70	2066
0- 80	2214
0- 90	2259
0-100	2265
0-110	2270
0-120	2275
0-130	2278
0-140	2281
0-150	2282
0-160	2283
0-170	2284
0-180	2284



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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	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	109	104	100	96	106	102	98	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	79	96	89	83	78	85	80	76	82	77	74	79	75	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	62	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	56	51	46	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	44	38	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	34	60	47	39	34	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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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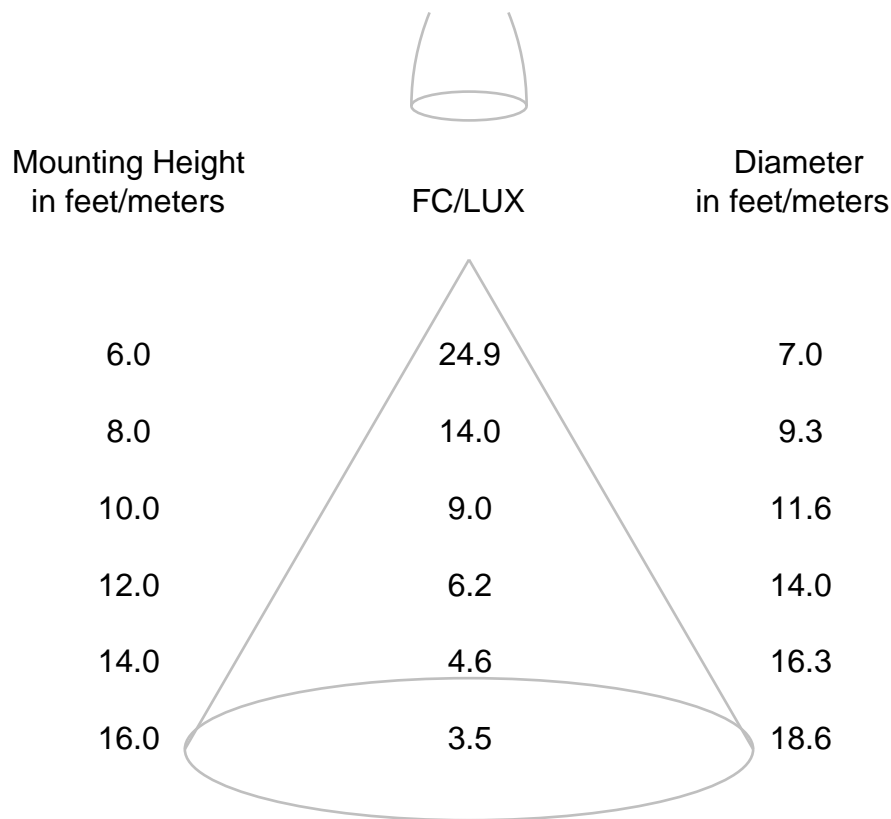
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## CONE OF LIGHT DIAGRAM

(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.