

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8ILED-LD5-10-W-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34173)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-UNV-L840-CD1-U
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

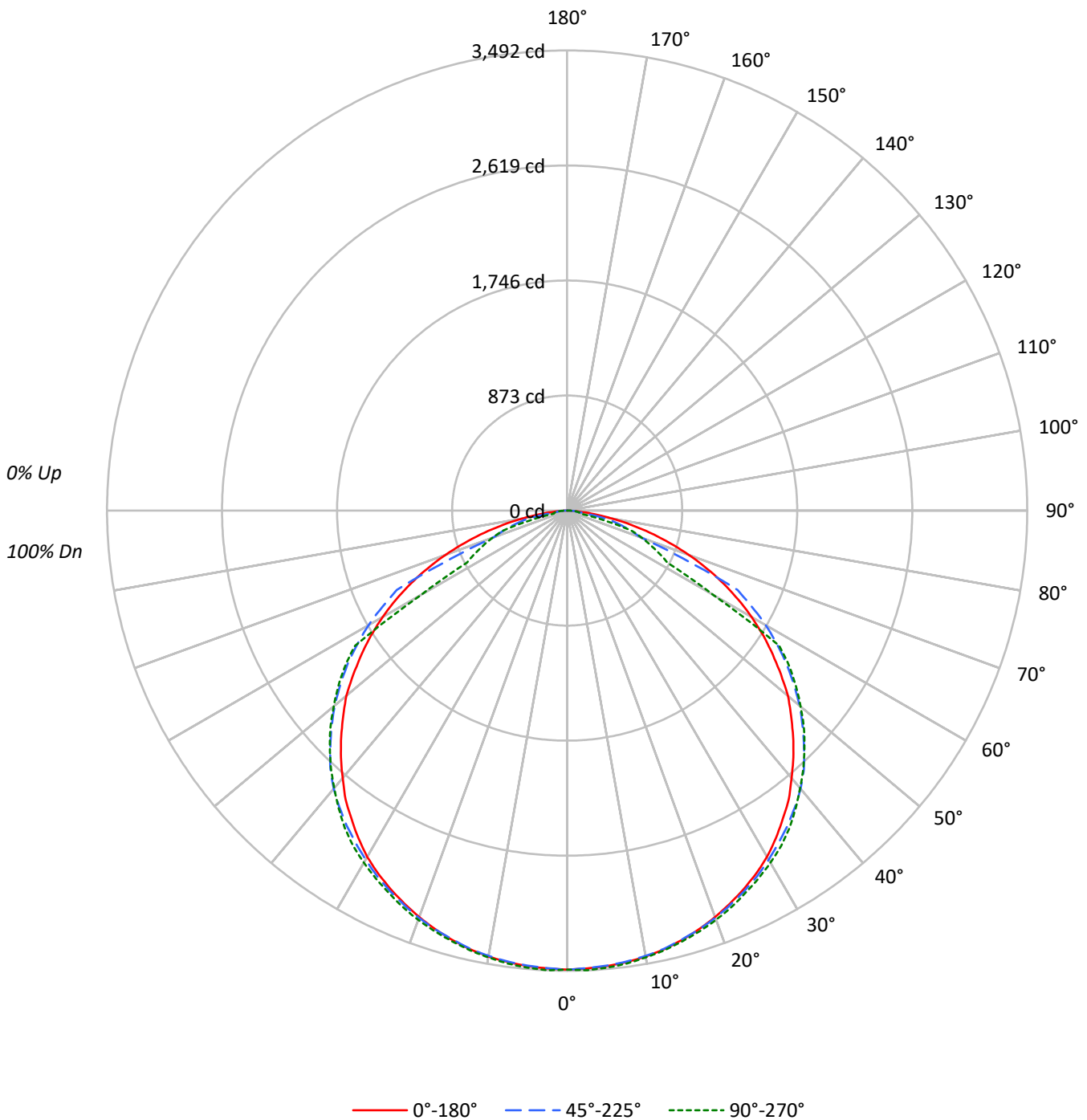
Lumens per Lamp: N/A
Luminaire Lumens: 10052.0 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73					71				
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62					60				
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54					51				
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47					44				
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34				
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32					30				
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29					27				
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26					25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5113	5113	5113
5°	5106	5070	5082
10°	5110	5039	5035
15°	5107	5003	4995
20°	5104	4982	4966
25°	5104	4957	4934
30°	5105	4939	4919
35°	5071	4931	4896
40°	5024	4926	4829
45°	4971	4858	4767
50°	4922	4770	4673
55°	4788	4638	4558
60°	4648	4452	3165
65°	4420	4186	2171
70°	4069	2047	1988
75°	3518	1787	1241
80°	2661	1064	507
85°	1390	542	468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.4	3.3
10°-20°	954.0	9.5
20°-30°	1471.0	14.6
30°-40°	1821.5	18.1
40°-50°	1939.0	19.3
50°-60°	1789.2	17.8
60°-70°	1145.6	11.4
70°-80°	516.0	5.1
80°-90°	85.2	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2755.5	27.4
0°-40°	4577.0	45.5
0°-60°	8305.2	82.6
0°-90°	10052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3483	3483	3483	3483	3483	
5°	3469	3475	3467	3476	3482	330
15°	3372	3378	3368	3385	3383	952
25°	3170	3178	3184	3204	3202	1462
35°	2855	2884	2917	2948	2941	1787
45°	2425	2475	2541	2558	2547	1871
55°	1905	1974	2035	2068	2059	1703
65°	1307	1369	1427	788	771	1291
75°	649	706	416	427	308	690
85°	94	71	64	68	62	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3483.3	3483.3	3483.3	3483.3	3483.3
2.5°	3477.7	3484.7	3475.0	3484.7	3491.6
5°	3469.4	3475.0	3466.7	3476.4	3481.9
7.5°	3455.6	3461.1	3451.4	3461.1	3466.7
10°	3436.1	3438.9	3432.0	3441.7	3443.1
12.5°	3408.4	3411.2	3405.6	3415.3	3416.7
15°	3372.3	3377.9	3368.2	3384.8	3383.4
17.5°	3330.7	3336.3	3332.1	3344.6	3346.0
20°	3282.2	3287.7	3289.1	3304.3	3305.7
22.5°	3228.0	3236.4	3237.8	3258.6	3257.2
25°	3169.8	3178.1	3183.7	3204.5	3201.7
27.5°	3106.0	3117.1	3125.4	3146.2	3146.2
30°	3033.8	3049.1	3058.8	3086.6	3085.2
32.5°	2947.8	2977.0	2988.1	3022.7	3020.0
35°	2854.9	2884.0	2917.3	2947.8	2940.9
37.5°	2763.3	2792.5	2838.2	2856.3	2848.0
40°	2649.6	2698.1	2756.4	2763.3	2750.8
42.5°	2541.4	2580.2	2659.3	2663.5	2652.4
45°	2424.9	2474.8	2541.4	2558.0	2546.9
47.5°	2304.2	2347.2	2424.9	2445.7	2437.3
50°	2187.6	2226.5	2302.8	2323.6	2312.5
52.5°	2044.8	2103.0	2168.2	2201.5	2189.0
55°	1904.6	1974.0	2035.0	2068.3	2058.6
57.5°	1764.5	1840.8	1886.6	1932.4	1908.8
60°	1617.5	1692.4	1742.3	1721.5	1281.8
62.5°	1464.9	1537.0	1578.7	1058.4	858.7
65°	1306.8	1369.2	1427.4	787.9	771.3
67.5°	1145.8	1208.3	950.2	700.5	685.3
70°	980.8	1039.0	589.6	610.4	602.1
72.5°	814.3	869.8	506.3	529.9	518.8
75°	649.2	706.1	416.2	427.3	308.0
77.5°	495.2	486.9	335.7	235.8	105.4
80°	337.1	224.7	187.3	98.5	97.1
82.5°	209.5	151.2	79.1	87.4	86.0
85°	94.3	70.7	63.8	68.0	62.4
87.5°	33.3	34.7	38.8	36.1	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)