

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-LD5-28-W-FL-UNV-L840-CD4-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 (P34181)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-28-W-FL-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

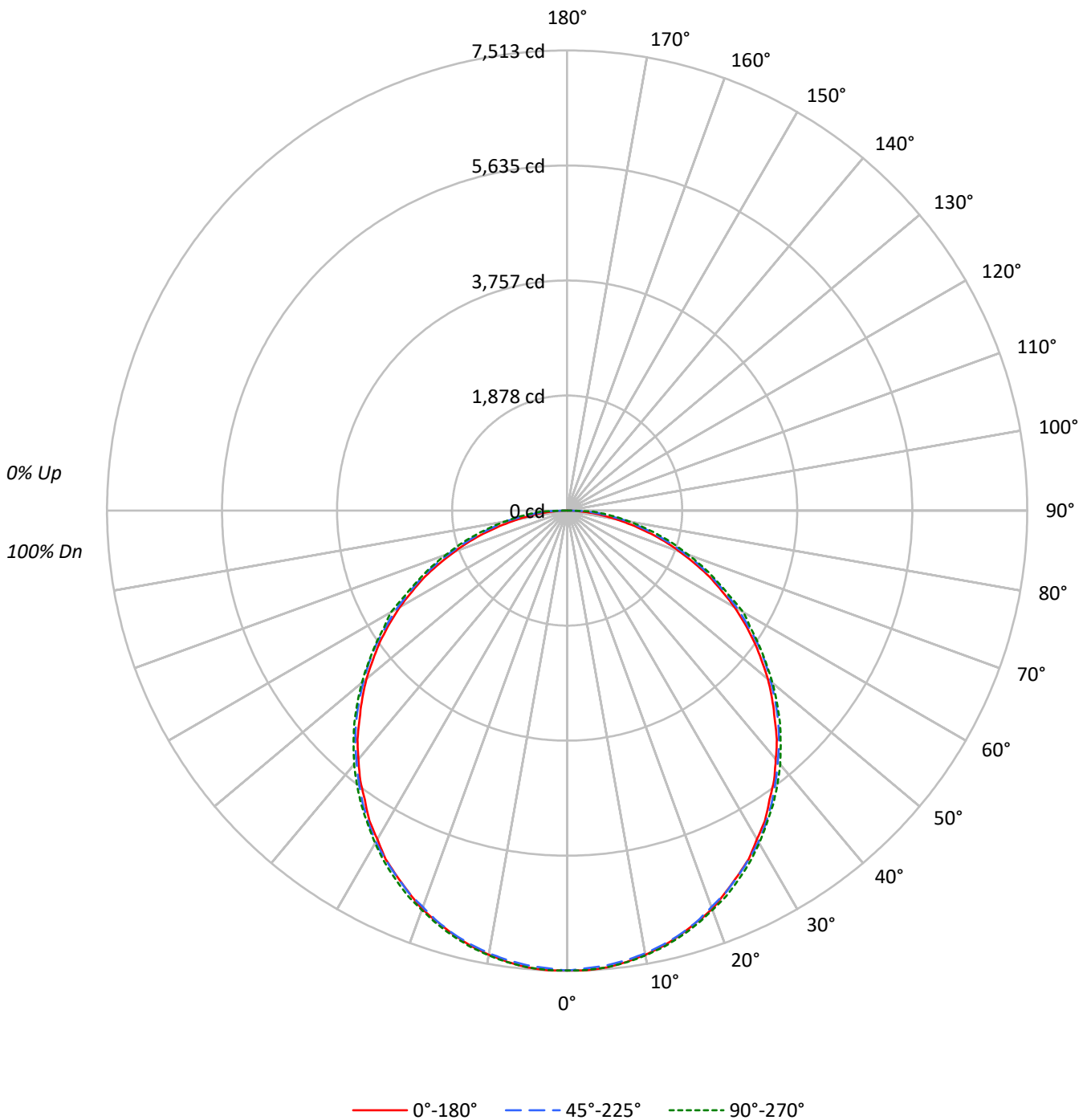
Lumens per Lamp: N/A
Luminaire Lumens: 21263.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
Input Voltage (V):
Input Current (Ain): 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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11022	11022	11022
5°	11019	10897	10921
10°	10950	10777	10784
15°	10854	10634	10621
20°	10767	10435	10426
25°	10597	10260	10232
30°	10427	10086	10002
35°	10234	9841	9757
40°	10048	9560	9498
45°	9822	9312	9197
50°	9627	8990	8848
55°	9372	8663	8467
60°	9063	8226	8206
65°	8675	7724	7533
70°	8085	7072	6930
75°	7366	6349	6255
80°	6444	5690	5409
85°	5390	4285	4503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.7	3.3
10°-20°	2023.2	9.5
20°-30°	3044.3	14.3
30°-40°	3642.2	17.1
40°-50°	3753.3	17.7
50°-60°	3383.9	15.9
60°-70°	2599.0	12.2
70°-80°	1564.8	7.4
80°-90°	542.5	2.6
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°	5777.3	27.2
0°-40°	9419.4	44.3
0°-60°	16556.7	77.9
0°-90°	21263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7510	7510	7510	7510	7510	
5°	7486	7479	7452	7479	7482	711
15°	7167	7174	7159	7190	7194	2023
25°	6581	6585	6589	6628	6639	3035
35°	5761	5819	5823	5857	5861	3611
45°	4791	4833	4872	4910	4914	3703
55°	3728	3759	3801	3824	3824	3327
65°	2565	2572	2634	2665	2676	2527
75°	1359	1398	1479	1533	1552	1444
85°	366	424	504	574	601	412
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7509.5	7509.5	7509.5	7509.5	7509.5
2.5°	7513.3	7509.5	7478.7	7501.8	7509.5
5°	7486.4	7478.7	7451.7	7478.7	7482.5
7.5°	7432.5	7428.6	7405.5	7432.5	7440.2
10°	7363.1	7363.1	7340.0	7367.0	7374.7
12.5°	7278.4	7274.6	7255.3	7286.1	7293.8
15°	7166.7	7174.4	7159.0	7189.8	7193.7
17.5°	7043.5	7047.4	7035.8	7062.8	7074.3
20°	6924.1	6904.9	6889.5	6935.7	6939.5
22.5°	6750.8	6758.5	6754.7	6797.0	6804.7
25°	6581.4	6585.2	6589.1	6627.6	6639.1
27.5°	6415.8	6411.9	6423.5	6454.3	6465.8
30°	6196.3	6227.1	6246.3	6269.4	6273.3
32.5°	6007.6	6019.1	6042.2	6057.6	6061.5
35°	5761.1	5818.9	5822.7	5857.4	5861.2
37.5°	5549.3	5568.6	5587.8	5630.2	5637.9
40°	5299.0	5326.0	5349.1	5387.6	5410.7
42.5°	5067.9	5098.7	5121.8	5156.5	5160.4
45°	4790.7	4833.0	4871.5	4910.0	4913.9
47.5°	4536.5	4578.9	4609.7	4640.5	4644.3
50°	4278.5	4313.1	4340.1	4378.6	4378.6
52.5°	3993.5	4035.9	4078.2	4093.6	4093.6
55°	3727.8	3758.6	3800.9	3824.1	3824.1
57.5°	3439.0	3454.4	3500.6	3542.9	3542.9
60°	3154.0	3173.2	3219.4	3250.3	3323.4
62.5°	2849.7	2880.6	2911.4	3011.5	2969.1
65°	2564.8	2572.5	2634.1	2664.9	2676.5
67.5°	2249.0	2275.9	2337.6	2372.2	2395.3
70°	1948.6	1983.3	2037.2	2079.5	2098.8
72.5°	1663.6	1679.0	1748.4	1806.1	1833.1
75°	1359.4	1397.9	1478.8	1532.7	1552.0
77.5°	1070.6	1132.2	1209.2	1397.9	1290.1
80°	816.4	862.6	1001.3	1009.0	1035.9
82.5°	569.9	623.9	716.3	777.9	808.7
85°	365.8	423.6	504.5	573.8	600.8
87.5°	169.4	231.1	335.0	412.1	435.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)