

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-LD5-14-W-CLWG-UNV-L840-CD2-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 (P34178)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-14-W-CLWG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUION

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

Summary

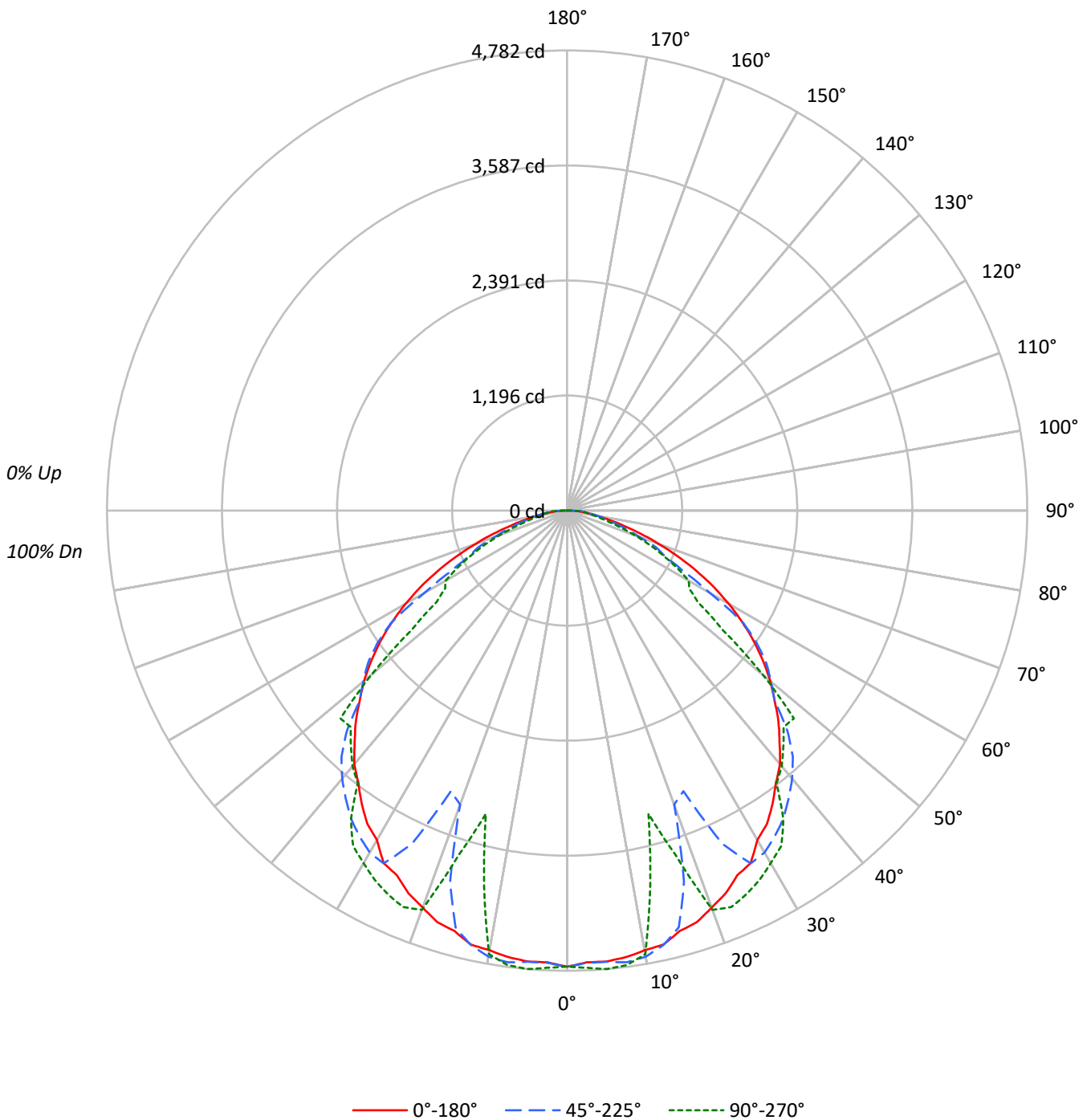
Lumens per Lamp: N/A
Luminaire Lumens: 12273.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6957	6957	6957
5°	6921	6883	6980
10°	6901	6910	6842
15°	6850	6658	4817
20°	6827	4923	6634
25°	6734	5951	6785
30°	6650	6624	6746
35°	6608	6614	6524
40°	6526	6502	6089
45°	6369	6191	5953
50°	6200	5728	5380
55°	5958	5490	3663
60°	5577	4392	3604
65°	5016	3269	3105
70°	4205	2787	2465
75°	3294	2234	1814
80°	2508	1905	1384
85°	2269	1622	1387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.0	3.7
10°-20°	1192.7	9.7
20°-30°	1901.7	15.5
30°-40°	2282.5	18.6
40°-50°	2427.5	19.8
50°-60°	1986.0	16.2
60°-70°	1259.2	10.3
70°-80°	581.7	4.7
80°-90°	191.9	1.6
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°	3544.4	28.9
0°-40°	5826.9	47.5
0°-60°	10240.3	83.4
0°-90°	12273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4740	4740	4740	4740	4740	
5°	4702	4704	4706	4743	4782	447
15°	4523	4593	4482	3531	3262	1282
25°	4182	4194	3822	4363	4402	1937
35°	3720	2789	3913	3987	3919	2325
45°	3106	3120	3239	3159	3180	2393
55°	2370	2494	2409	1867	1654	2110
65°	1483	1508	1115	1122	1103	1462
75°	608	577	520	481	450	666
85°	154	168	191	191	185	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4739.5	4739.5	4739.5	4739.5	4739.5
2.5°	4698.6	4706.4	4704.4	4739.5	4755.1
5°	4702.5	4704.4	4706.4	4743.4	4782.4
7.5°	4681.0	4722.0	4735.6	4722.0	4762.9
10°	4640.1	4677.1	4706.4	4665.4	4679.1
12.5°	4618.7	4673.2	4624.5	4423.8	3987.3
15°	4523.2	4593.3	4482.3	3531.2	3262.3
17.5°	4484.2	4531.0	4039.9	3246.7	3755.4
20°	4390.7	4455.0	3250.6	4174.3	4416.0
22.5°	4304.9	4351.7	3155.1	4390.7	4458.9
25°	4182.1	4193.8	3821.6	4363.4	4402.4
27.5°	4129.5	3954.1	4133.4	4306.9	4328.3
30°	3952.2	3591.7	4102.2	4228.9	4230.9
32.5°	3862.5	3127.8	4014.5	4115.9	4137.3
35°	3720.3	2788.7	3913.2	3987.3	3919.1
37.5°	3564.4	2740.0	3778.7	3739.8	3574.1
40°	3441.6	2989.5	3638.4	3396.8	3468.9
42.5°	3268.2	3141.5	3470.8	3313.0	3326.6
45°	3106.4	3120.0	3238.9	3159.0	3180.5
47.5°	2923.2	3012.9	2921.3	3026.5	3196.0
50°	2755.6	2851.1	2765.4	2938.8	2662.1
52.5°	2564.6	2683.5	2611.4	2363.9	2042.4
55°	2369.7	2494.5	2408.7	1867.0	1654.5
57.5°	2157.3	2260.6	2171.0	1529.8	1502.5
60°	1941.0	2022.9	1718.8	1393.4	1459.7
62.5°	1713.0	1763.7	1356.4	1284.3	1280.4
65°	1483.0	1508.4	1114.7	1122.5	1103.0
67.5°	1243.3	1255.0	1003.6	951.0	921.8
70°	1013.4	1005.6	802.9	773.7	746.4
72.5°	802.9	765.9	652.9	613.9	580.7
75°	608.0	576.8	520.3	481.4	450.2
77.5°	452.1	434.6	407.3	411.2	344.9
80°	317.7	319.6	335.2	284.5	265.0
82.5°	220.2	231.9	239.7	235.8	230.0
85°	154.0	167.6	191.0	191.0	185.1
87.5°	78.0	115.0	154.0	163.7	159.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)