

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: **4ILED-LD5-14-W-CL-UNV-L850-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 (P34177)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-W-CL-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

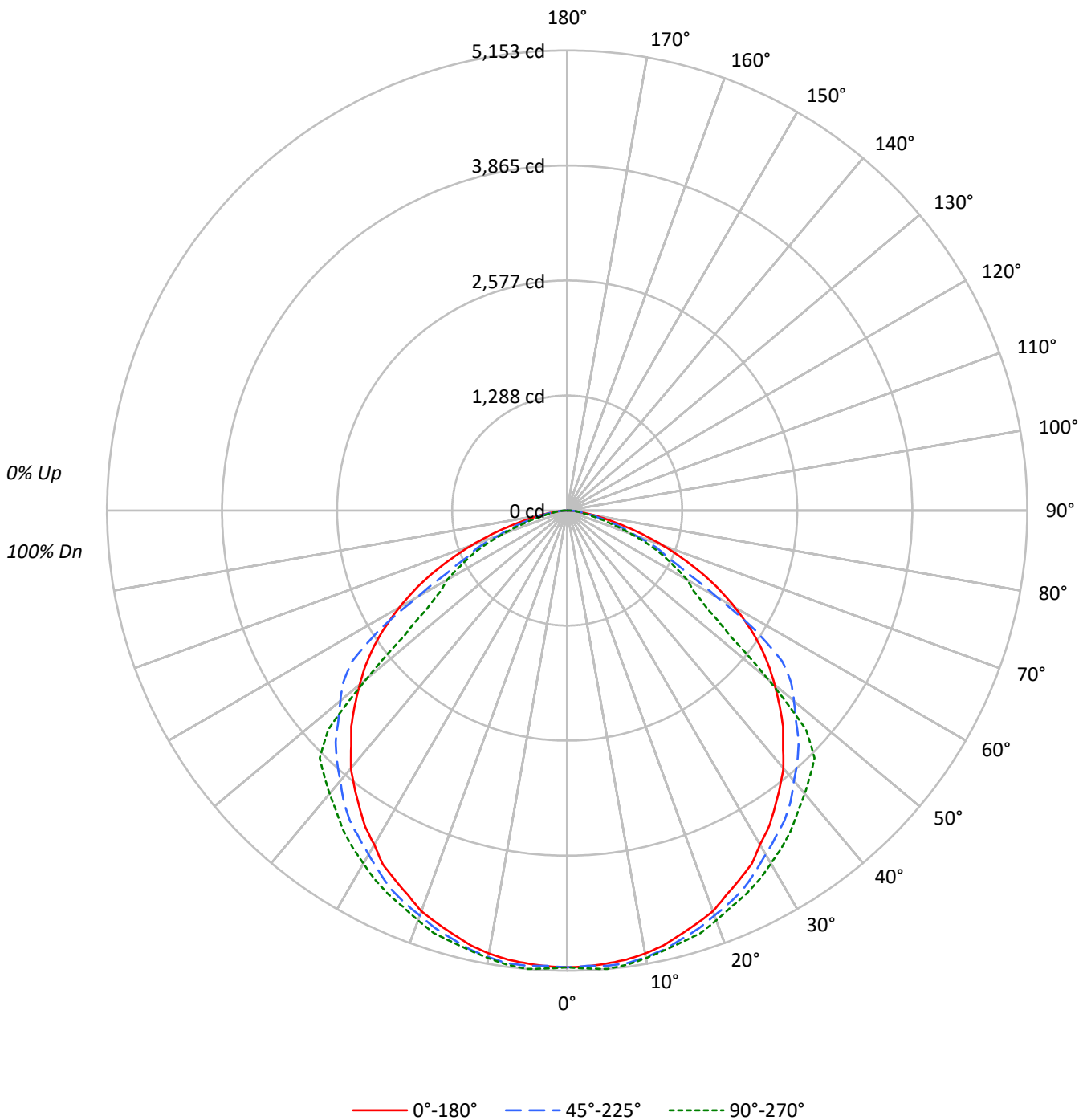
Lumens per Lamp: N/A
Luminaire Lumens: 13854.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64					62				
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55					53				
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43					41				
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38					36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34					32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31					29				
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15018	15018	15018
5°	14975	14957	15042
10°	14948	14889	14883
15°	14834	14718	14762
20°	14780	14574	14670
25°	14605	14499	14606
30°	14436	14292	14554
35°	14284	14252	14550
40°	14135	14026	14530
45°	13844	13902	14666
50°	13450	13607	11862
55°	13021	13249	8486
60°	12226	9769	7663
65°	11000	7154	6660
70°	9168	5603	5007
75°	6721	4136	3341
80°	4286	2886	2089
85°	2127	1717	1561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.5	3.5
10°-20°	1405.5	10.1
20°-30°	2151.8	15.5
30°-40°	2648.7	19.1
40°-50°	2807.3	20.3
50°-60°	2254.6	16.3
60°-70°	1401.2	10.1
70°-80°	576.7	4.2
80°-90°	120.8	0.9
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°	4044.8	29.2
0°-40°	6693.4	48.3
0°-60°	11755.3	84.9
0°-90°	13854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5116	5116	5116	5116	5116	
5°	5093	5105	5118	5145	5153	484
15°	4914	4982	4966	4999	4999	1389
25°	4562	4610	4674	4726	4739	2104
35°	4056	4156	4241	4347	4370	2539
45°	3418	3493	3666	3841	3918	2629
55°	2635	2752	2939	2098	1916	2345
65°	1668	1787	1239	1177	1183	1644
75°	648	596	494	442	414	710
85°	81	100	106	106	104	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5115.8	5115.8	5115.8	5115.8	5115.8
2.5°	5107.4	5113.7	5103.3	5126.2	5132.4
5°	5092.8	5105.3	5117.8	5144.9	5153.2
7.5°	5072.0	5099.1	5113.7	5130.3	5130.3
10°	5036.6	5078.3	5078.3	5084.5	5088.7
12.5°	4986.6	5042.9	5032.4	5036.6	5042.9
15°	4913.7	4982.4	4965.8	4999.1	4999.1
17.5°	4845.0	4903.3	4905.4	4947.0	4961.6
20°	4774.1	4822.1	4826.2	4886.6	4882.5
22.5°	4659.6	4732.5	4753.3	4786.6	4803.3
25°	4561.7	4609.6	4674.2	4726.2	4738.7
27.5°	4468.0	4507.5	4559.6	4649.2	4659.6
30°	4320.1	4403.4	4447.1	4565.9	4563.8
32.5°	4203.4	4278.4	4340.9	4455.5	4472.1
35°	4055.5	4155.5	4240.9	4347.1	4370.1
37.5°	3911.8	4003.5	4109.7	4213.8	4245.1
40°	3766.0	3849.3	3951.4	4076.4	4138.8
42.5°	3578.5	3680.6	3813.9	3957.6	4028.4
45°	3418.1	3493.1	3666.0	3841.0	3918.1
47.5°	3224.4	3322.3	3474.4	3697.3	3626.4
50°	3032.8	3145.3	3316.1	3349.4	2934.9
52.5°	2843.2	2955.7	3161.9	2649.5	2295.4
55°	2634.9	2751.6	2939.1	2097.5	1916.3
57.5°	2407.9	2518.3	2501.6	1741.4	1678.9
60°	2172.5	2280.8	1937.2	1524.7	1551.8
62.5°	1928.8	2045.5	1520.6	1393.5	1351.8
65°	1668.5	1787.2	1239.4	1176.9	1183.1
67.5°	1397.7	1497.6	1087.3	1004.0	983.2
70°	1141.5	1170.6	822.8	799.9	758.2
72.5°	885.3	847.8	654.1	604.1	560.3
75°	647.8	595.7	493.7	441.6	414.5
77.5°	449.9	412.4	356.2	374.9	277.0
80°	289.5	268.7	262.5	208.3	200.0
82.5°	170.8	168.7	162.5	150.0	145.8
85°	81.2	100.0	106.2	106.2	104.1
87.5°	29.2	50.0	66.7	70.8	75.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)