

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-LD5-16-W-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 (P34173)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-16-W-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

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

Summary

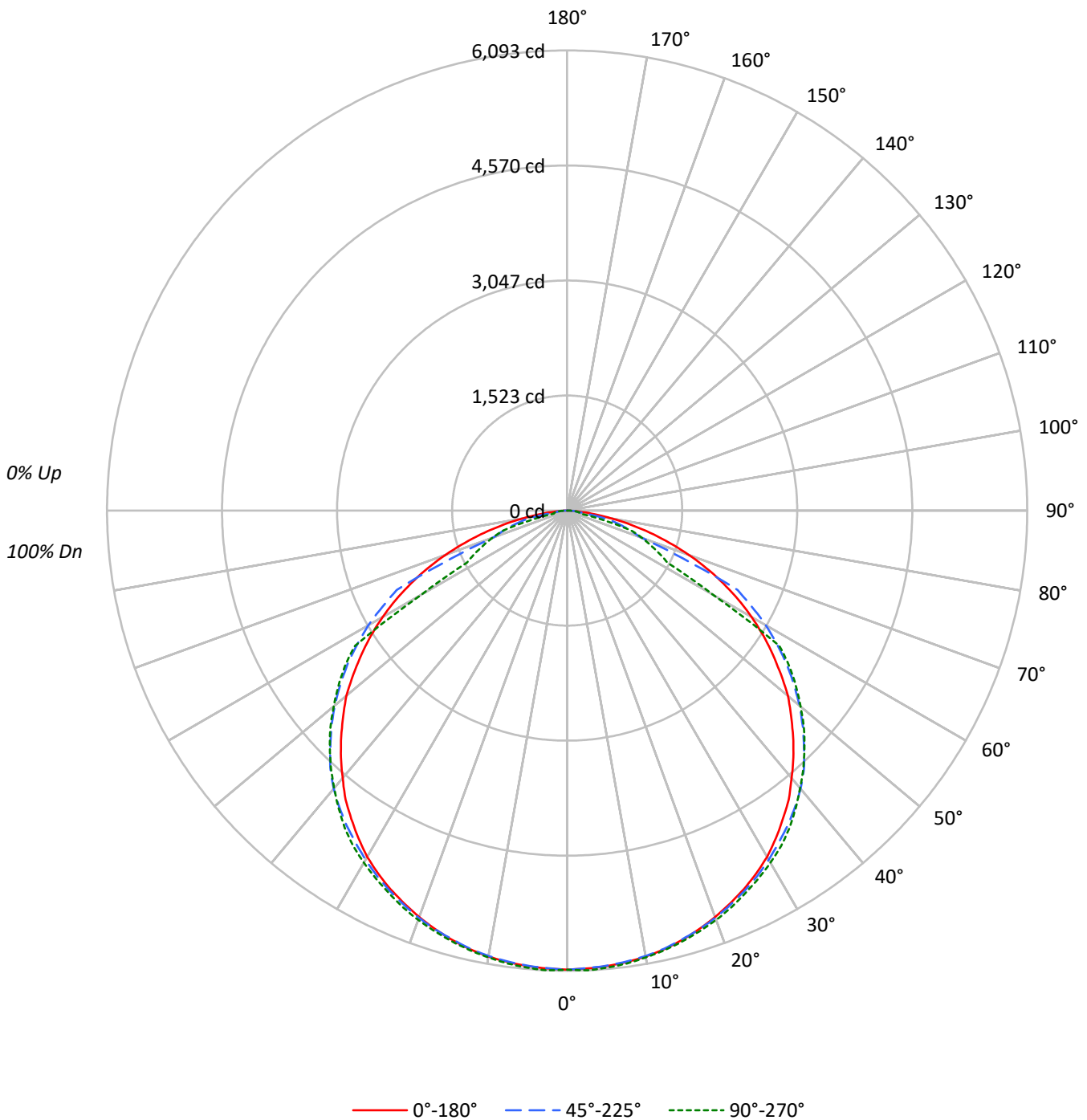
Lumens per Lamp: N/A
Luminaire Lumens: 17541.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
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°	17844	17844	17844
5°	17802	17680	17736
10°	17795	17559	17572
15°	17766	17420	17434
20°	17731	17332	17333
25°	17710	17233	17221
30°	17690	17154	17168
35°	17547	17108	17086
40°	17354	17074	16853
45°	17139	16817	16637
50°	16930	16489	16309
55°	16425	16008	15908
60°	15884	15333	11046
65°	15034	14379	7576
70°	13746	7005	6938
75°	11753	6084	4332
80°	8709	3593	1770
85°	4312	1801	1632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.6	3.3
10°-20°	1664.8	9.5
20°-30°	2567.0	14.6
30°-40°	3178.5	18.1
40°-50°	3383.6	19.3
50°-60°	3122.3	17.8
60°-70°	1999.1	11.4
70°-80°	900.5	5.1
80°-90°	148.7	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°	4808.4	27.4
0°-40°	7986.9	45.5
0°-60°	14492.8	82.6
0°-90°	17541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6078	6078	6078	6078	6078	
5°	6054	6064	6049	6066	6076	576
15°	5885	5894	5878	5907	5904	1662
25°	5531	5546	5556	5592	5587	2551
35°	4982	5033	5091	5144	5132	3118
45°	4231	4319	4435	4464	4444	3265
55°	3324	3445	3551	3609	3592	2973
65°	2280	2389	2491	1375	1346	2252
75°	1133	1232	726	746	537	1204
85°	165	124	111	119	109	240
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6078.4	6078.4	6078.4	6078.4	6078.4
2.5°	6068.8	6080.9	6063.9	6080.9	6093.0
5°	6054.2	6063.9	6049.4	6066.3	6076.0
7.5°	6030.0	6039.7	6022.8	6039.7	6049.4
10°	5996.1	6001.0	5988.9	6005.8	6008.2
12.5°	5947.7	5952.6	5942.9	5959.8	5962.2
15°	5884.8	5894.5	5877.5	5906.6	5904.2
17.5°	5812.2	5821.8	5814.6	5836.4	5838.8
20°	5727.4	5737.1	5739.5	5766.2	5768.6
22.5°	5633.0	5647.6	5650.0	5686.3	5683.9
25°	5531.4	5545.9	5555.6	5591.9	5587.0
27.5°	5420.0	5439.4	5453.9	5490.2	5490.2
30°	5294.1	5320.8	5337.7	5386.1	5383.7
32.5°	5144.0	5194.9	5214.2	5274.8	5269.9
35°	4981.9	5032.7	5090.8	5144.0	5131.9
37.5°	4822.1	4872.9	4952.8	4984.3	4969.8
40°	4623.6	4708.3	4810.0	4822.1	4800.3
42.5°	4434.8	4502.6	4640.5	4647.8	4628.4
45°	4231.4	4318.6	4434.8	4463.8	4444.5
47.5°	4020.8	4095.9	4231.4	4267.7	4253.2
50°	3817.5	3885.3	4018.4	4054.7	4035.4
52.5°	3568.2	3669.8	3783.6	3841.7	3819.9
55°	3323.7	3444.7	3551.2	3609.3	3592.4
57.5°	3079.2	3212.3	3292.2	3372.1	3330.9
60°	2822.6	2953.3	3040.4	3004.1	2236.8
62.5°	2556.3	2682.2	2754.8	1847.0	1498.4
65°	2280.3	2389.3	2490.9	1375.0	1345.9
67.5°	1999.5	2108.5	1658.2	1222.5	1195.8
70°	1711.5	1813.1	1028.8	1065.1	1050.6
72.5°	1421.0	1517.8	883.6	924.7	905.4
75°	1132.9	1232.1	726.2	745.6	537.4
77.5°	864.2	849.7	585.8	411.5	184.0
80°	588.2	392.2	326.8	171.9	169.5
82.5°	365.5	263.9	138.0	152.5	150.1
85°	164.6	123.5	111.4	118.6	108.9
87.5°	58.1	60.5	67.8	62.9	58.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)