

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-N-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-N-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

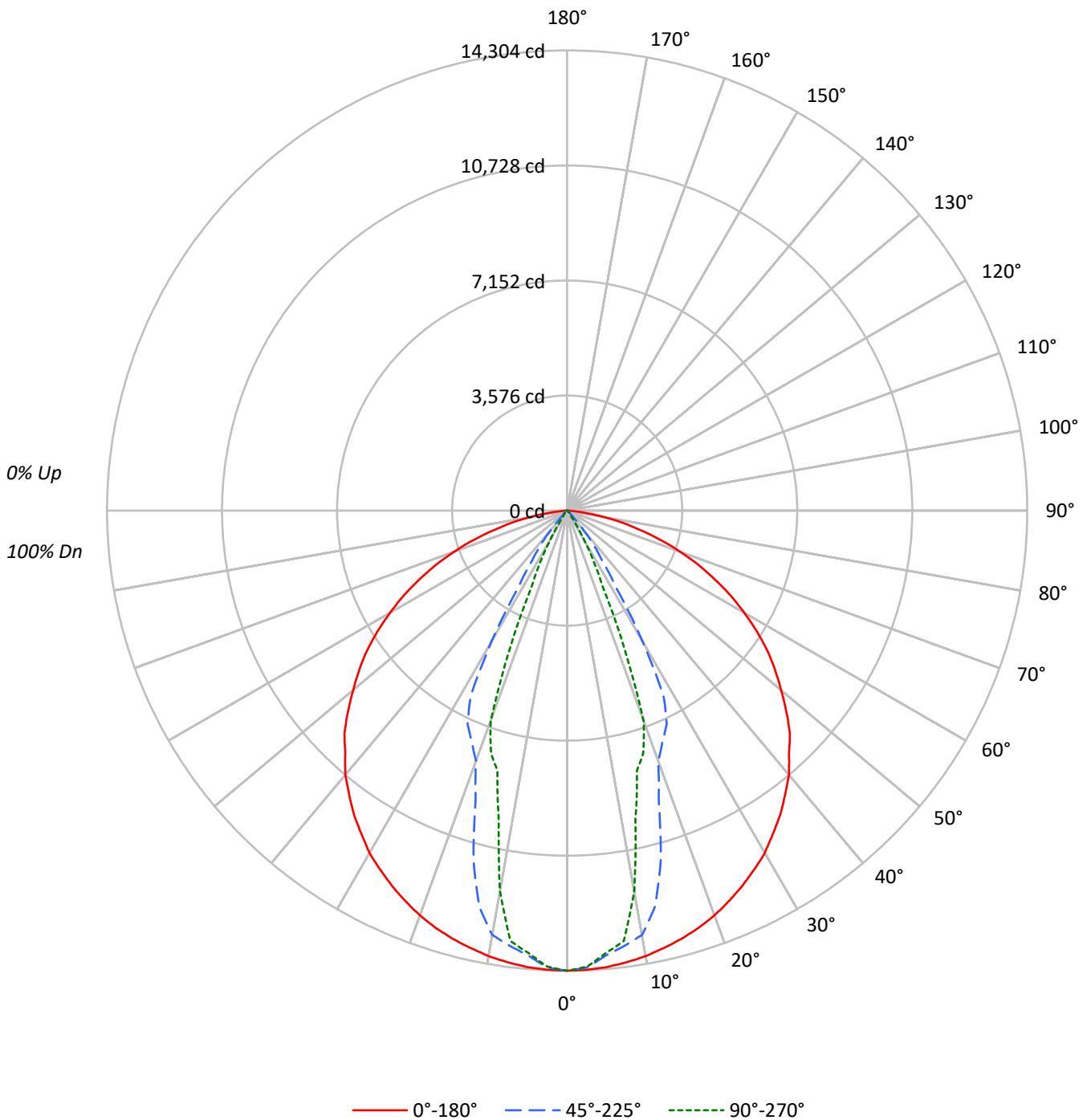
Lumens per Lamp: N/A
Luminaire Lumens: 14387.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41992	41992	41992
5°	41881	40555	40295
10°	41731	39272	35114
15°	41580	33323	24725
20°	41447	25013	20905
25°	41208	22726	8117
30°	41059	15039	3460
35°	40669	6399	764
40°	40248	2821	545
45°	39658	674	253
50°	38501	416	137
55°	37562	264	139
60°	35771	239	145
65°	33404	247	152
70°	30027	261	164
75°	24659	302	181
80°	17497	346	165
85°	5601	364	202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1314.0	9.1
10°-20°	3136.1	21.8
20°-30°	3429.0	23.8
30°-40°	2481.6	17.2
40°-50°	1852.0	12.9
50°-60°	1081.4	7.5
60°-70°	672.3	4.7
70°-80°	350.6	2.4
80°-90°	70.1	0.5
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°	7879.1	54.8
0°-40°	10360.7	72.0
0°-60°	13294.0	92.4
0°-90°	14387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14304	14304	14304	14304	14304	
5°	14243	14192	13876	13834	13804	###
15°	13773	13289	11243	8792	8373	3889
25°	12870	10926	7326	3820	2634	5937
35°	11547	7043	1904	412	230	7219
45°	9791	4603	178	122	68	7518
55°	7601	891	58	68	32	6767
65°	5067	74	43	40	27	5010
75°	2377	45	36	29	22	2548
85°	214	29	22	20	14	405
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14304.2	14304.2	14304.2	14304.2	14304.2
2.5°	14281.7	14299.7	14214.1	14214.1	14189.4
5°	14243.4	14191.6	13876.5	13833.7	13804.5
7.5°	14160.1	13957.5	13649.2	13592.9	13496.1
10°	14061.1	13705.5	13394.8	12593.5	12006.1
12.5°	13921.5	13496.1	12616.0	10630.8	9816.0
15°	13773.0	13289.0	11243.0	8791.8	8373.2
17.5°	13597.4	13014.4	9458.1	8062.6	7882.5
20°	13388.1	12568.8	8283.1	7560.6	6957.4
22.5°	13142.7	11877.8	7751.9	6284.4	4657.0
25°	12870.4	10925.6	7326.5	3819.7	2633.5
27.5°	12584.5	9800.2	6484.7	2320.6	1798.4
30°	12287.4	8643.3	4679.5	1663.4	1084.9
32.5°	11907.0	7697.9	2838.3	936.4	483.9
35°	11546.9	7042.9	1904.2	411.9	229.6
37.5°	11130.5	6590.5	1391.0	218.3	162.1
40°	10723.1	6149.3	794.6	164.3	155.3
42.5°	10209.9	5600.1	335.4	155.3	110.3
45°	9791.2	4603.0	177.8	121.5	67.5
47.5°	9237.5	3151.2	119.3	94.5	42.8
50°	8681.5	1947.0	101.3	74.3	33.8
52.5°	8152.6	1289.7	74.3	69.8	31.5
55°	7601.1	891.3	58.5	67.5	31.5
57.5°	6988.9	438.9	49.5	65.3	29.3
60°	6356.4	171.1	47.3	63.0	29.3
62.5°	5730.7	94.5	45.0	51.8	27.0
65°	5066.7	74.3	42.8	40.5	27.0
67.5°	4409.4	60.8	40.5	38.3	27.0
70°	3738.7	54.0	38.3	33.8	24.8
72.5°	3054.4	49.5	36.0	33.8	22.5
75°	2376.9	45.0	36.0	29.3	22.5
77.5°	1778.2	42.8	33.8	29.3	18.0
80°	1181.7	38.3	31.5	24.8	15.8
82.5°	652.7	36.0	27.0	22.5	15.8
85°	213.8	29.3	22.5	20.3	13.5
87.5°	33.8	20.3	18.0	18.0	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)