

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-LD5-9-W-FL-UNV-L850-CD1-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: 4ILED-LD5-9-W-FL-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

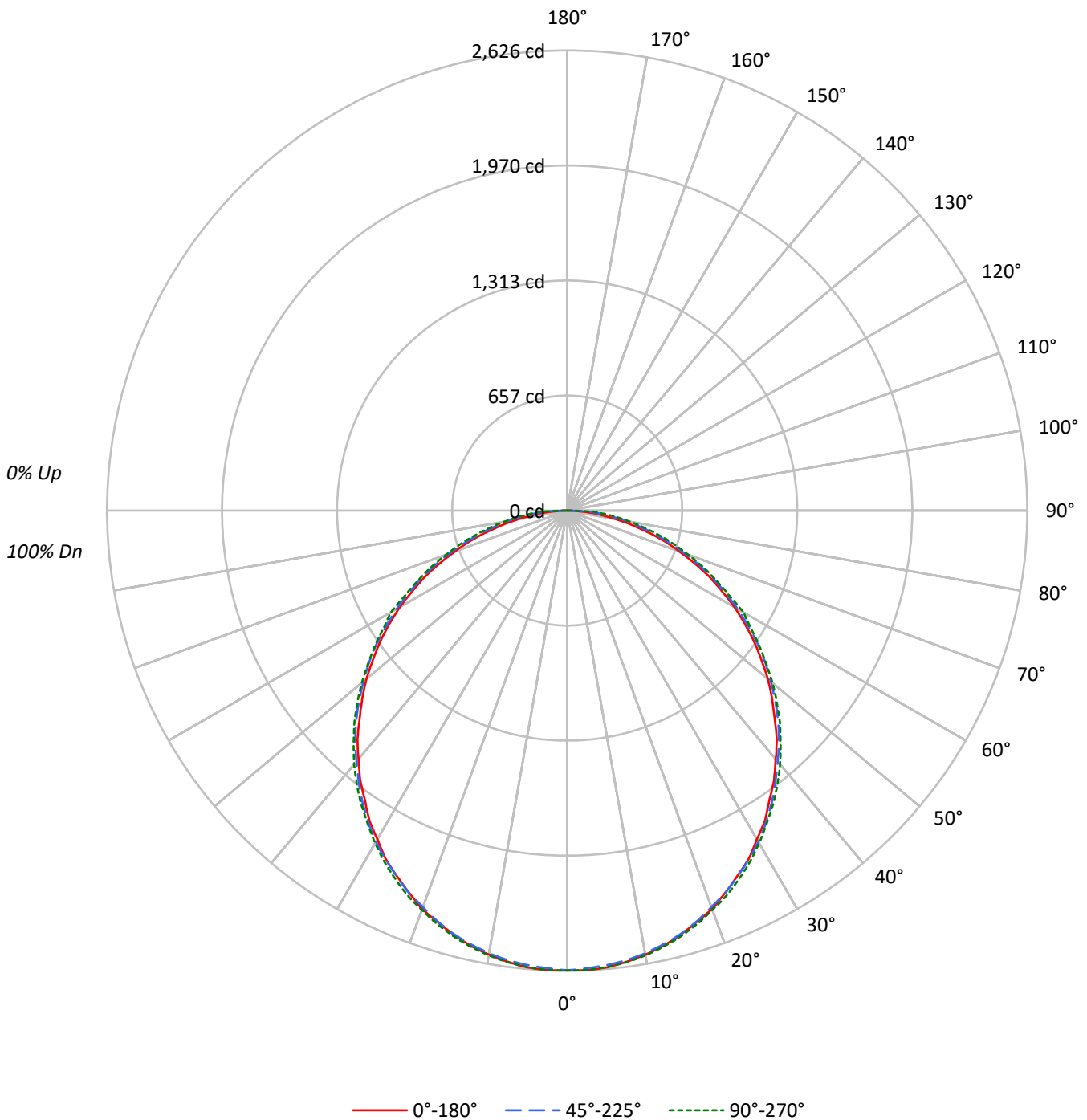
Lumens per Lamp: N/A
Luminaire Lumens: 7431.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
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	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°	7704	7704	7704
5°	7693	7611	7633
10°	7637	7521	7538
15°	7561	7415	7424
20°	7491	7271	7287
25°	7364	7143	7152
30°	7236	7016	6991
35°	7091	6838	6820
40°	6951	6636	6639
45°	6781	6456	6428
50°	6631	6224	6184
55°	6438	5988	5918
60°	6203	5674	5736
65°	5909	5314	5266
70°	5469	4848	4844
75°	4929	4330	4372
80°	4224	3847	3781
85°	3351	2850	3148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.0	3.3
10°-20°	707.1	9.5
20°-30°	1063.9	14.3
30°-40°	1272.9	17.1
40°-50°	1311.7	17.7
50°-60°	1182.6	15.9
60°-70°	908.3	12.2
70°-80°	546.8	7.4
80°-90°	189.6	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°	2019.0	27.2
0°-40°	3291.9	44.3
0°-60°	5786.2	77.9
0°-90°	7431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2624	2624	2624	2624	2624	
5°	2616	2614	2604	2614	2615	248
15°	2505	2507	2502	2513	2514	707
25°	2300	2301	2303	2316	2320	1061
35°	2013	2034	2035	2047	2048	1262
45°	1674	1689	1702	1716	1717	1294
55°	1303	1314	1328	1336	1336	1163
65°	896	899	921	931	935	883
75°	475	488	517	536	542	505
85°	128	148	176	200	210	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2624.4	2624.4	2624.4	2624.4	2624.4
2.5°	2625.8	2624.4	2613.6	2621.7	2624.4
5°	2616.3	2613.6	2604.2	2613.6	2615.0
7.5°	2597.5	2596.2	2588.1	2597.5	2600.2
10°	2573.3	2573.3	2565.2	2574.6	2577.3
12.5°	2543.7	2542.3	2535.6	2546.4	2549.0
15°	2504.6	2507.3	2501.9	2512.7	2514.1
17.5°	2461.6	2462.9	2458.9	2468.3	2472.3
20°	2419.8	2413.1	2407.7	2423.9	2425.2
22.5°	2359.3	2362.0	2360.6	2375.4	2378.1
25°	2300.1	2301.4	2302.8	2316.2	2320.3
27.5°	2242.2	2240.8	2244.9	2255.6	2259.7
30°	2165.5	2176.2	2183.0	2191.0	2192.4
32.5°	2099.5	2103.6	2111.6	2117.0	2118.4
35°	2013.4	2033.6	2034.9	2047.0	2048.4
37.5°	1939.4	1946.1	1952.8	1967.6	1970.3
40°	1851.9	1861.3	1869.4	1882.8	1890.9
42.5°	1771.1	1781.9	1790.0	1802.1	1803.4
45°	1674.2	1689.0	1702.5	1716.0	1717.3
47.5°	1585.4	1600.2	1611.0	1621.8	1623.1
50°	1495.2	1507.4	1516.8	1530.2	1530.2
52.5°	1395.6	1410.5	1425.3	1430.6	1430.6
55°	1302.8	1313.6	1328.4	1336.4	1336.4
57.5°	1201.8	1207.2	1223.4	1238.2	1238.2
60°	1102.3	1109.0	1125.1	1135.9	1161.5
62.5°	995.9	1006.7	1017.5	1052.5	1037.7
65°	896.3	899.0	920.6	931.3	935.4
67.5°	786.0	795.4	816.9	829.0	837.1
70°	681.0	693.1	712.0	726.8	733.5
72.5°	581.4	586.8	611.0	631.2	640.6
75°	475.1	488.5	516.8	535.6	542.4
77.5°	374.1	395.7	422.6	488.5	450.9
80°	285.3	301.5	349.9	352.6	362.0
82.5°	199.2	218.0	250.3	271.9	282.6
85°	127.9	148.0	176.3	200.5	210.0
87.5°	59.2	80.8	117.1	144.0	152.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)