

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-CL-UNV-L840-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 (P34177)
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-CL-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

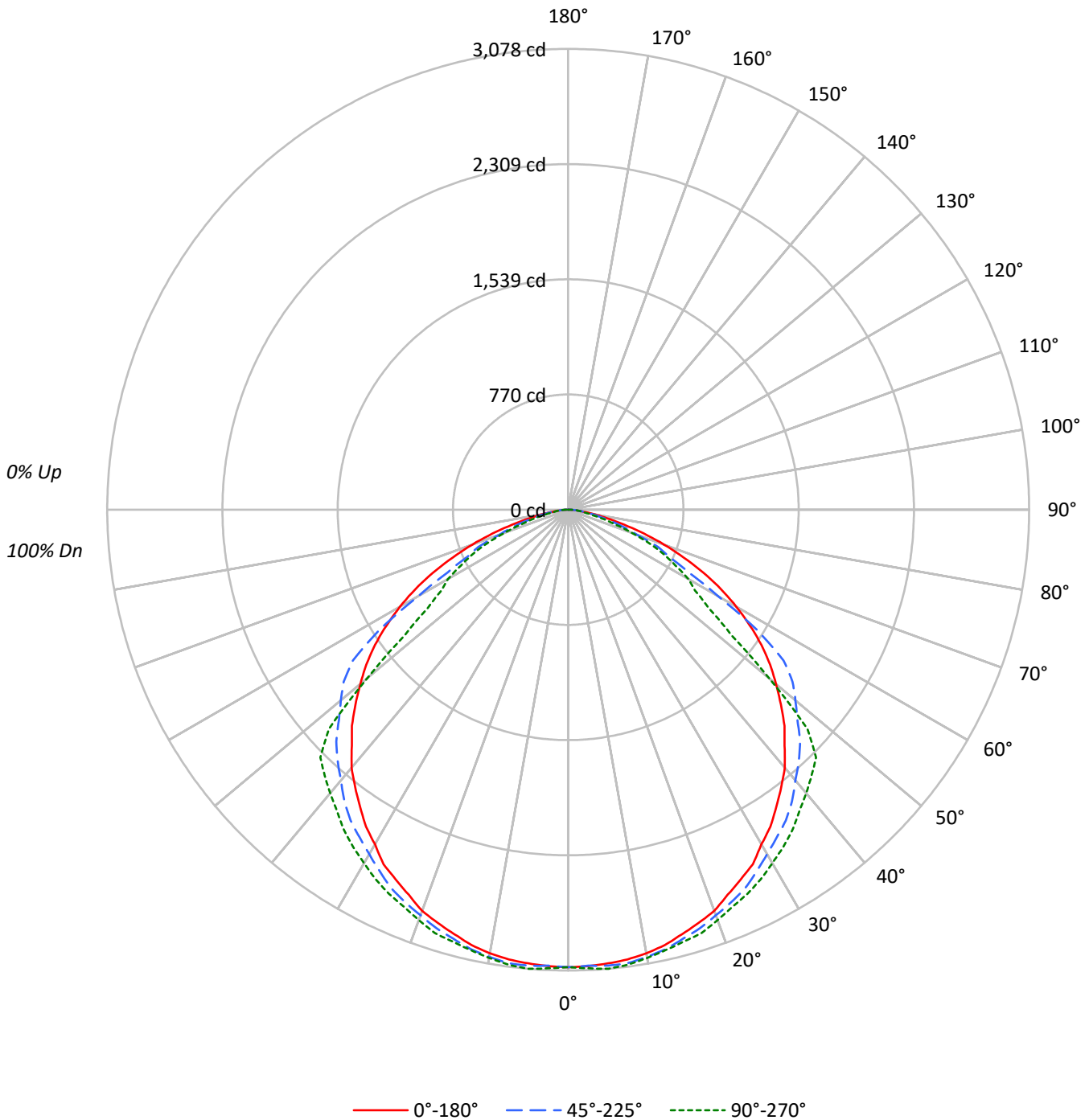
Lumens per Lamp: N/A
Luminaire Lumens: 8276.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	8971	8971	8971
5°	8946	8935	8986
10°	8929	8894	8890
15°	8862	8792	8818
20°	8829	8706	8764
25°	8725	8661	8725
30°	8623	8538	8694
35°	8533	8514	8692
40°	8444	8379	8680
45°	8270	8305	8761
50°	8035	8128	7086
55°	7778	7914	5069
60°	7303	5836	4578
65°	6571	4274	3979
70°	5477	3347	2991
75°	4015	2471	1996
80°	2561	1724	1248
85°	1271	1026	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	3.5
10°-20°	839.6	10.1
20°-30°	1285.4	15.5
30°-40°	1582.2	19.1
40°-50°	1677.0	20.3
50°-60°	1346.8	16.3
60°-70°	837.0	10.1
70°-80°	344.5	4.2
80°-90°	72.2	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°	2416.2	29.2
0°-40°	3998.5	48.3
0°-60°	7022.3	84.9
0°-90°	8276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3056	3056	3056	3056	3056	
5°	3042	3050	3057	3073	3078	289
15°	2935	2976	2966	2986	2986	830
25°	2725	2754	2792	2823	2831	1257
35°	2423	2482	2533	2597	2611	1517
45°	2042	2087	2190	2294	2340	1571
55°	1574	1644	1756	1253	1145	1401
65°	997	1068	740	703	707	982
75°	387	356	295	264	248	424
85°	48	60	64	64	62	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3056.0	3056.0	3056.0	3056.0	3056.0
2.5°	3051.0	3054.8	3048.5	3062.2	3066.0
5°	3042.3	3049.8	3057.3	3073.4	3078.4
7.5°	3029.9	3046.1	3054.8	3064.7	3064.7
10°	3008.7	3033.6	3033.6	3037.3	3039.8
12.5°	2978.9	3012.5	3006.2	3008.7	3012.5
15°	2935.3	2976.4	2966.4	2986.3	2986.3
17.5°	2894.3	2929.1	2930.3	2955.2	2963.9
20°	2851.9	2880.6	2883.1	2919.1	2916.6
22.5°	2783.5	2827.1	2839.5	2859.4	2869.4
25°	2725.0	2753.6	2792.2	2823.3	2830.8
27.5°	2669.0	2692.7	2723.8	2777.3	2783.5
30°	2580.7	2630.5	2656.6	2727.5	2726.3
32.5°	2511.0	2555.8	2593.1	2661.6	2671.5
35°	2422.7	2482.4	2533.4	2596.9	2610.6
37.5°	2336.8	2391.6	2455.0	2517.2	2535.9
40°	2249.7	2299.5	2360.4	2435.1	2472.4
42.5°	2137.7	2198.7	2278.3	2364.2	2406.5
45°	2041.9	2086.7	2190.0	2294.5	2340.5
47.5°	1926.2	1984.7	2075.5	2208.6	2166.3
50°	1811.7	1878.9	1980.9	2000.8	1753.2
52.5°	1698.5	1765.7	1888.9	1582.8	1371.2
55°	1574.0	1643.7	1755.7	1253.0	1144.8
57.5°	1438.4	1504.4	1494.4	1040.2	1002.9
60°	1297.8	1362.5	1157.2	910.8	927.0
62.5°	1152.2	1221.9	908.3	832.4	807.6
65°	996.7	1067.6	740.4	703.0	706.8
67.5°	834.9	894.7	649.5	599.8	587.3
70°	681.9	699.3	491.5	477.8	452.9
72.5°	528.8	506.4	390.7	360.8	334.7
75°	387.0	355.9	294.9	263.8	247.6
77.5°	268.8	246.4	212.8	224.0	165.5
80°	173.0	160.5	156.8	124.4	119.5
82.5°	102.0	100.8	97.1	89.6	87.1
85°	48.5	59.7	63.5	63.5	62.2
87.5°	17.4	29.9	39.8	42.3	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)