

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-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 (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-L850-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

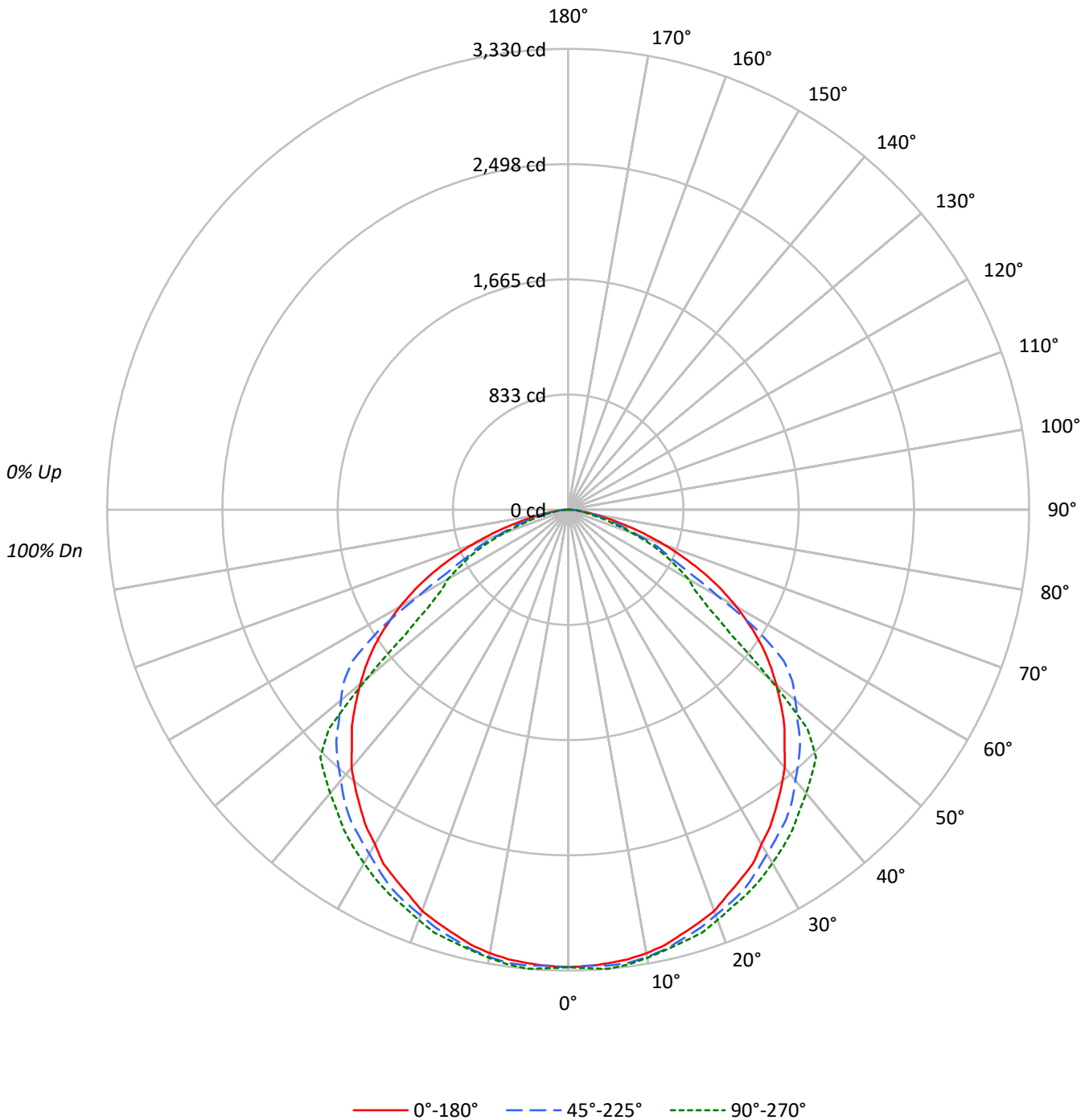
Lumens per Lamp: N/A
Luminaire Lumens: 8952.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	9704	9704	9704
5°	9676	9665	9720
10°	9659	9621	9617
15°	9585	9510	9539
20°	9550	9417	9480
25°	9438	9369	9438
30°	9328	9235	9404
35°	9230	9209	9402
40°	9134	9064	9389
45°	8946	8983	9477
50°	8691	8792	7664
55°	8414	8561	5483
60°	7900	6312	4951
65°	7108	4623	4304
70°	5924	3620	3235
75°	4343	2673	2159
80°	2770	1865	1349
85°	1375	1109	1009



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	3.5
10°-20°	908.2	10.1
20°-30°	1390.4	15.5
30°-40°	1711.5	19.1
40°-50°	1814.0	20.3
50°-60°	1456.8	16.3
60°-70°	905.4	10.1
70°-80°	372.6	4.2
80°-90°	78.1	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°	2613.6	29.2
0°-40°	4325.1	48.3
0°-60°	7595.9	84.9
0°-90°	8952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3306	3306	3306	3306	3306	
5°	3291	3299	3307	3324	3330	313
15°	3175	3220	3209	3230	3230	897
25°	2948	2979	3020	3054	3062	1360
35°	2620	2685	2740	2809	2824	1641
45°	2209	2257	2369	2482	2532	1699
55°	1703	1778	1899	1355	1238	1515
65°	1078	1155	801	760	764	1062
75°	419	385	319	285	268	459
85°	52	65	69	69	67	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3305.6	3305.6	3305.6	3305.6	3305.6
2.5°	3300.2	3304.3	3297.6	3312.4	3316.4
5°	3290.8	3298.9	3307.0	3324.5	3329.9
7.5°	3277.4	3294.9	3304.3	3315.1	3315.1
10°	3254.5	3281.4	3281.4	3285.4	3288.1
12.5°	3222.2	3258.5	3251.8	3254.5	3258.5
15°	3175.1	3219.5	3208.7	3230.3	3230.3
17.5°	3130.7	3168.3	3169.7	3196.6	3206.0
20°	3084.9	3115.9	3118.5	3157.6	3154.9
22.5°	3010.9	3058.0	3071.4	3093.0	3103.7
25°	2947.6	2978.6	3020.3	3053.9	3062.0
27.5°	2887.0	2912.6	2946.3	3004.1	3010.9
30°	2791.5	2845.3	2873.6	2950.3	2949.0
32.5°	2716.1	2764.6	2804.9	2879.0	2889.7
35°	2620.5	2685.2	2740.3	2809.0	2823.8
37.5°	2527.7	2586.9	2655.5	2722.8	2743.0
40°	2433.5	2487.3	2553.3	2634.0	2674.4
42.5°	2312.3	2378.3	2464.4	2557.3	2603.1
45°	2208.7	2257.1	2368.9	2481.9	2531.7
47.5°	2083.5	2146.8	2245.0	2389.0	2343.3
50°	1959.7	2032.4	2142.7	2164.3	1896.4
52.5°	1837.2	1909.9	2043.1	1712.0	1483.2
55°	1702.6	1778.0	1899.1	1355.4	1238.3
57.5°	1555.9	1627.2	1616.5	1125.2	1084.8
60°	1403.8	1473.8	1251.7	985.2	1002.7
62.5°	1246.3	1321.7	982.5	900.4	873.5
65°	1078.1	1154.8	800.8	760.5	764.5
67.5°	903.1	967.7	702.6	648.7	635.3
70°	737.6	756.4	531.6	516.8	489.9
72.5°	572.0	547.8	422.6	390.3	362.1
75°	418.6	384.9	319.0	285.3	267.8
77.5°	290.7	266.5	230.2	242.3	179.0
80°	187.1	173.6	169.6	134.6	129.2
82.5°	110.4	109.0	105.0	96.9	94.2
85°	52.5	64.6	68.6	68.6	67.3
87.5°	18.8	32.3	43.1	45.8	48.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)