

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-LD5-11-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-LD5-11-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

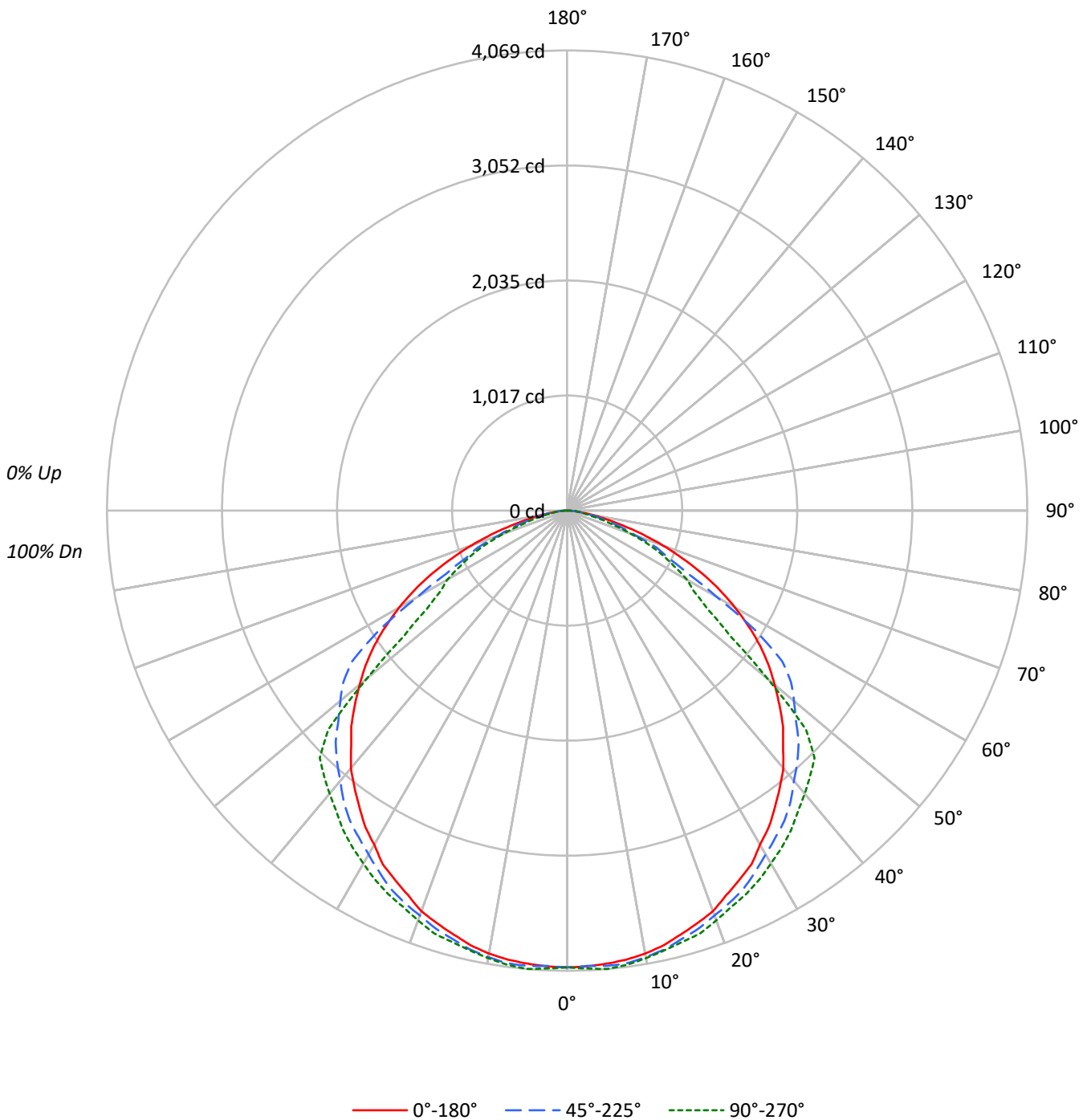
Lumens per Lamp: N/A
Luminaire Lumens: 10940.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
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



TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-11-W-CL-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-11-W-CL-UNV-L850-CD1-U

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°	11859	11859	11859
5°	11825	11811	11878
10°	11804	11757	11752
15°	11714	11622	11657
20°	11671	11509	11585
25°	11533	11449	11534
30°	11399	11286	11492
35°	11279	11254	11489
40°	11162	11076	11474
45°	10933	10978	11581
50°	10621	10745	9367
55°	10282	10462	6701
60°	9655	7714	6051
65°	8686	5650	5259
70°	7240	4424	3954
75°	5307	3266	2638
80°	3385	2278	1649
85°	1679	1356	1232



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-11-W-CL-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.0	3.5
10°-20°	1109.9	10.1
20°-30°	1699.2	15.5
30°-40°	2091.6	19.1
40°-50°	2216.8	20.3
50°-60°	1780.4	16.3
60°-70°	1106.5	10.1
70°-80°	455.4	4.2
80°-90°	95.4	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°	3194.0	29.2
0°-40°	5285.6	48.3
0°-60°	9282.7	84.9
0°-90°	10940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4040	4040	4040	4040	4040	
5°	4022	4032	4041	4063	4069	383
15°	3880	3934	3921	3948	3948	1097
25°	3602	3640	3691	3732	3742	1662
35°	3202	3282	3349	3433	3451	2005
45°	2699	2758	2895	3033	3094	2076
55°	2081	2173	2321	1656	1513	1852
65°	1318	1411	979	929	934	1298
75°	512	470	390	349	327	561
85°	64	79	84	84	82	91
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-11-W-CL-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4039.7	4039.7	4039.7	4039.7	4039.7
2.5°	4033.1	4038.1	4029.9	4047.9	4052.9
5°	4021.6	4031.5	4041.4	4062.8	4069.3
7.5°	4005.2	4026.6	4038.1	4051.2	4051.2
10°	3977.2	4010.1	4010.1	4015.1	4018.3
12.5°	3937.7	3982.2	3973.9	3977.2	3982.2
15°	3880.2	3934.5	3921.3	3947.6	3947.6
17.5°	3825.9	3872.0	3873.6	3906.5	3918.0
20°	3770.0	3807.8	3811.1	3858.8	3855.5
22.5°	3679.5	3737.1	3753.5	3779.8	3793.0
25°	3602.2	3640.0	3691.0	3732.1	3742.0
27.5°	3528.2	3559.4	3600.6	3671.3	3679.5
30°	3411.4	3477.2	3511.7	3605.5	3603.8
32.5°	3319.3	3378.5	3427.8	3518.3	3531.5
35°	3202.5	3281.5	3348.9	3432.8	3450.9
37.5°	3089.0	3161.4	3245.3	3327.5	3352.2
40°	2973.9	3039.7	3120.3	3219.0	3268.3
42.5°	2825.8	2906.4	3011.7	3125.2	3181.1
45°	2699.2	2758.4	2894.9	3033.1	3093.9
47.5°	2546.2	2623.5	2743.6	2919.6	2863.7
50°	2394.9	2483.7	2618.6	2644.9	2317.6
52.5°	2245.2	2334.0	2496.9	2092.2	1812.6
55°	2080.7	2172.8	2320.9	1656.4	1513.3
57.5°	1901.4	1988.6	1975.5	1375.1	1325.7
60°	1715.6	1801.1	1529.7	1204.0	1225.4
62.5°	1523.1	1615.2	1200.7	1100.4	1067.5
65°	1317.5	1411.3	978.7	929.3	934.3
67.5°	1103.7	1182.6	858.6	792.8	776.4
70°	901.4	924.4	649.7	631.6	598.7
72.5°	699.1	669.4	516.5	477.0	442.5
75°	511.5	470.4	389.8	348.7	327.3
77.5°	355.3	325.7	281.3	296.1	218.8
80°	228.6	212.2	207.2	164.5	157.9
82.5°	134.9	133.2	128.3	118.4	115.1
85°	64.1	79.0	83.9	83.9	82.2
87.5°	23.0	39.5	52.6	55.9	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)