

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-TWB-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 (P34175)
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-TWB-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

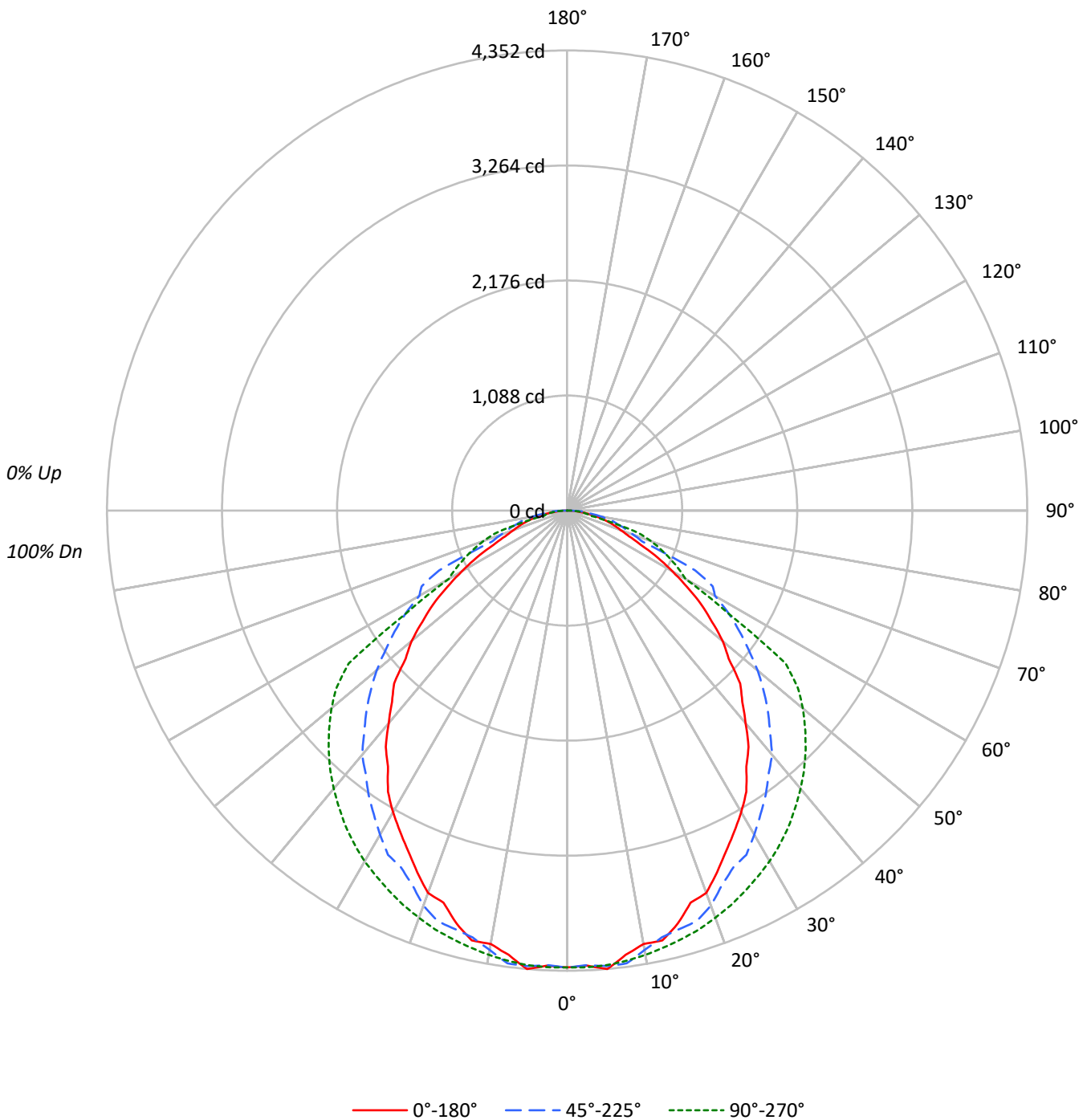
Lumens per Lamp: N/A
Luminaire Lumens: 10897.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
Input Voltage (V):
Input Current (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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	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	50	60	54	49	58	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12685	12685	12685
5°	12797	12638	12594
10°	12351	12370	12479
15°	12206	12144	12381
20°	11916	12006	12311
25°	11381	11541	12249
30°	11004	11371	12211
35°	10405	11006	12152
40°	9860	10702	12058
45°	9374	10186	11939
50°	8520	9652	11760
55°	7649	8972	11166
60°	6480	8137	6385
65°	5086	7720	6037
70°	4320	4536	5551
75°	4078	4107	3500
80°	3653	3598	2062
85°	2759	2659	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.3	3.8
10°-20°	1162.2	10.7
20°-30°	1734.7	15.9
30°-40°	2064.9	18.9
40°-50°	2087.8	19.2
50°-60°	1759.0	16.1
60°-70°	1016.4	9.3
70°-80°	501.7	4.6
80°-90°	160.9	1.5
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°	3306.3	30.3
0°-40°	5371.1	49.3
0°-60°	9217.9	84.6
0°-90°	10897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4321	4321	4321	4321	4321	
5°	4352	4362	4324	4303	4314	407
15°	4043	4106	4097	4208	4193	1135
25°	3555	3620	3721	3902	3974	1641
35°	2954	3074	3275	3553	3650	1858
45°	2314	2385	2686	3008	3189	1756
55°	1548	1670	1990	2374	2522	1374
65°	771	941	1337	1005	1072	794
75°	393	484	490	540	434	413
85°	105	130	164	196	117	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4321.1	4321.1	4321.1	4321.1	4321.1
2.5°	4307.9	4312.8	4303.0	4327.6	4322.7
5°	4352.3	4362.2	4324.4	4303.0	4314.5
7.5°	4238.8	4260.2	4319.4	4291.5	4294.7
10°	4161.5	4164.8	4219.1	4306.3	4266.8
12.5°	4164.8	4158.2	4133.6	4283.2	4232.2
15°	4043.1	4105.6	4097.4	4207.6	4192.8
17.5°	3886.8	3947.7	4071.0	4131.9	4153.3
20°	3849.0	3827.6	3975.6	4034.9	4097.4
22.5°	3702.6	3788.1	3829.3	3960.8	4041.4
25°	3554.6	3620.4	3720.7	3901.6	3974.0
27.5°	3421.3	3492.1	3669.7	3845.7	3903.3
30°	3293.0	3358.8	3538.1	3775.0	3829.3
32.5°	3153.2	3235.5	3404.9	3689.4	3743.7
35°	2954.2	3074.3	3274.9	3552.9	3650.0
37.5°	2817.7	2896.6	3131.8	3408.2	3543.0
40°	2626.9	2753.5	3015.0	3296.3	3434.5
42.5°	2450.9	2575.9	2839.0	3156.5	3317.7
45°	2314.3	2385.1	2686.1	3008.5	3189.4
47.5°	2070.9	2250.2	2519.9	2850.6	3052.9
50°	1921.2	2044.6	2352.2	2699.2	2909.8
52.5°	1727.1	1865.3	2163.0	2531.5	2750.2
55°	1547.8	1669.5	1990.3	2373.5	2521.6
57.5°	1343.9	1500.1	1811.0	2194.3	1799.5
60°	1151.4	1307.7	1613.6	1482.0	1292.9
62.5°	967.2	1105.4	1552.8	1115.2	1185.9
65°	771.4	940.9	1337.3	1005.0	1072.5
67.5°	633.3	751.7	771.4	899.7	959.0
70°	537.9	595.4	666.2	797.8	840.5
72.5°	467.1	491.8	579.0	708.9	715.5
75°	393.1	483.6	490.2	539.5	434.2
77.5°	314.2	389.8	424.4	314.2	222.1
80°	246.7	264.8	327.3	276.3	197.4
82.5°	171.1	195.7	227.0	238.5	162.8
85°	105.3	129.9	164.5	195.7	116.8
87.5°	44.4	70.7	113.5	151.3	64.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)