

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: **8ILED-LD5-10-W-TWB-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 (P34175)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-TWB-UNV-L840-CD1-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

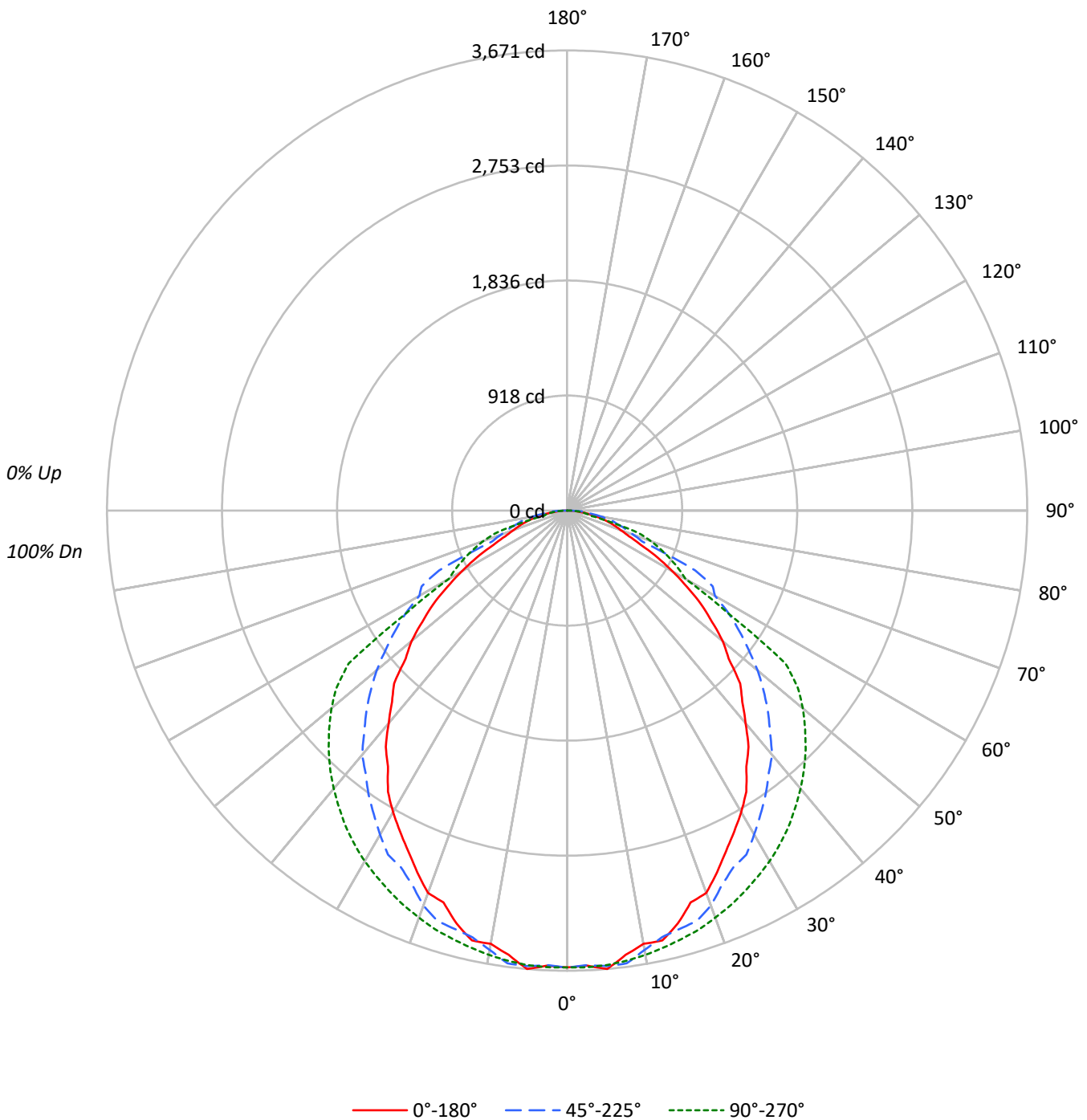
Lumens per Lamp: N/A
Luminaire Lumens: 9191.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
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	46
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°	5350	5350	5350
5°	5403	5334	5311
10°	5220	5225	5263
15°	5165	5133	5221
20°	5048	5079	5192
25°	4827	4887	5166
30°	4674	4819	5150
35°	4426	4668	5125
40°	4201	4545	5085
45°	4002	4330	5035
50°	3646	4109	4959
55°	3282	3826	4709
60°	2790	3478	2693
65°	2201	3308	2546
70°	1882	1951	2341
75°	1797	1775	1476
80°	1643	1569	869
85°	1309	1178	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.3	3.8
10°-20°	980.2	10.7
20°-30°	1463.2	15.9
30°-40°	1741.6	18.9
40°-50°	1760.9	19.2
50°-60°	1483.7	16.1
60°-70°	857.3	9.3
70°-80°	423.2	4.6
80°-90°	135.7	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°	2788.6	30.3
0°-40°	4530.2	49.3
0°-60°	7774.8	84.6
0°-90°	9191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3645	3645	3645	3645	3645	
5°	3671	3679	3647	3629	3639	343
15°	3410	3463	3456	3549	3536	957
25°	2998	3054	3138	3291	3352	1384
35°	2492	2593	2762	2997	3078	1567
45°	1952	2012	2266	2538	2690	1481
55°	1306	1408	1679	2002	2127	1159
65°	651	794	1128	848	905	670
75°	332	408	413	455	366	349
85°	89	110	139	165	98	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3644.6	3644.6	3644.6	3644.6	3644.6
2.5°	3633.5	3637.6	3629.3	3650.1	3646.0
5°	3670.9	3679.3	3647.3	3629.3	3639.0
7.5°	3575.2	3593.2	3643.2	3619.6	3622.4
10°	3510.0	3512.8	3558.6	3632.1	3598.8
12.5°	3512.8	3507.2	3486.4	3612.7	3569.7
15°	3410.1	3462.8	3455.9	3548.8	3536.4
17.5°	3278.3	3329.6	3433.7	3485.0	3503.1
20°	3246.4	3228.4	3353.2	3403.2	3455.9
22.5°	3122.9	3195.1	3229.8	3340.7	3408.7
25°	2998.1	3053.6	3138.2	3290.8	3351.8
27.5°	2885.7	2945.3	3095.2	3243.6	3292.2
30°	2777.5	2833.0	2984.2	3184.0	3229.8
32.5°	2659.6	2728.9	2871.8	3111.8	3157.6
35°	2491.7	2593.0	2762.2	2996.7	3078.5
37.5°	2376.5	2443.1	2641.5	2874.6	2988.4
40°	2215.6	2322.4	2543.0	2780.3	2896.8
42.5°	2067.2	2172.6	2394.6	2662.3	2798.3
45°	1952.0	2011.7	2265.5	2537.5	2690.1
47.5°	1746.7	1897.9	2125.4	2404.3	2574.9
50°	1620.4	1724.5	1983.9	2276.6	2454.2
52.5°	1456.7	1573.3	1824.4	2135.1	2319.7
55°	1305.5	1408.2	1678.7	2001.9	2126.8
57.5°	1133.5	1265.3	1527.5	1850.7	1517.8
60°	971.1	1102.9	1361.0	1250.0	1090.5
62.5°	815.8	932.3	1309.7	940.6	1000.3
65°	650.7	793.6	1127.9	847.7	904.6
67.5°	534.1	634.0	650.7	758.9	808.8
70°	453.7	502.2	561.9	672.9	708.9
72.5°	394.0	414.8	488.3	597.9	603.5
75°	331.6	407.9	413.4	455.1	366.3
77.5°	265.0	328.8	357.9	265.0	187.3
80°	208.1	223.4	276.1	233.1	166.5
82.5°	144.3	165.1	191.5	201.2	137.3
85°	88.8	109.6	138.7	165.1	98.5
87.5°	37.5	59.7	95.7	127.6	54.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)