

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-WG-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 (P34174)
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-WG-UNV-L840-CD1-U
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

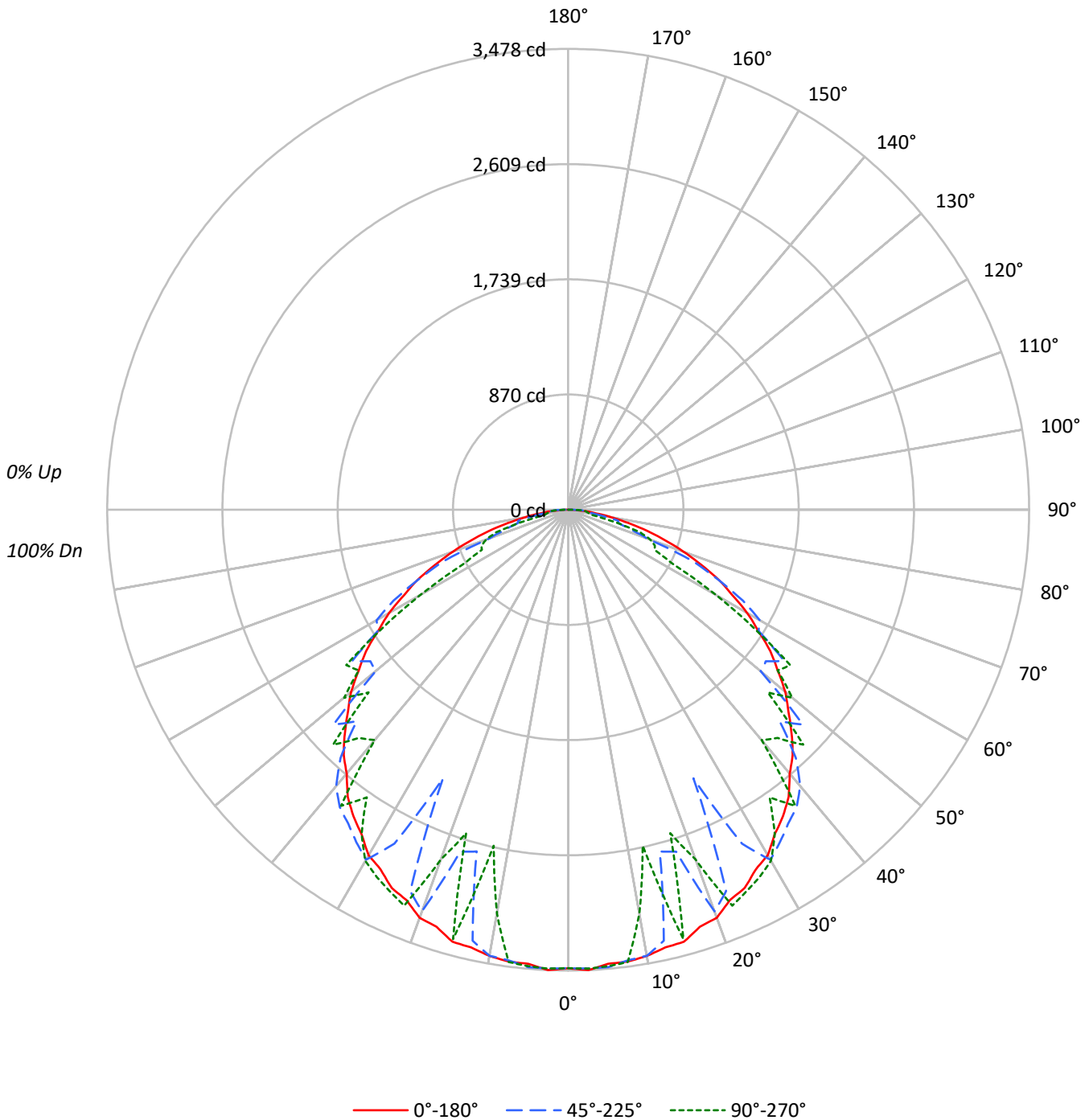
Lumens per Lamp: N/A
Luminaire Lumens: 9514.0 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5079	5079	5079
5°	5064	5068	5048
10°	5086	5019	4526
15°	5112	3967	4953
20°	5095	4885	4221
25°	5073	3482	4901
30°	5066	4926	4880
35°	5017	4889	4411
40°	4930	4867	3984
45°	4886	4315	4695
50°	4810	3925	4460
55°	4684	4531	4528
60°	4485	4264	3186
65°	4251	3645	2023
70°	3834	2182	2176
75°	3338	1686	1493
80°	2639	1403	862
85°	2004	1096	998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.8	3.4
10°-20°	875.1	9.2
20°-30°	1356.9	14.3
30°-40°	1739.6	18.3
40°-50°	1781.6	18.7
50°-60°	1689.3	17.8
60°-70°	1082.1	11.4
70°-80°	525.8	5.5
80°-90°	135.8	1.4
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°	2559.8	26.9
0°-40°	4299.4	45.2
0°-60°	7770.3	81.7
0°-90°	9514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3460	3460	3460	3460	3460	
5°	3441	3450	3466	3474	3459	328
15°	3375	3375	2671	3141	3355	948
25°	3151	2722	2236	3199	3180	1448
35°	2825	2843	2893	2818	2650	1764
45°	2383	2388	2257	2272	2508	1837
55°	1863	1921	1988	1917	2045	1655
65°	1257	1228	1243	807	719	1231
75°	616	688	393	476	370	652
85°	136	119	129	136	133	154
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3460.0	3460.0	3460.0	3460.0	3460.0
2.5°	3478.0	3480.8	3465.5	3460.0	3466.9
5°	3440.6	3450.3	3465.5	3473.9	3458.6
7.5°	3439.2	3443.3	3430.9	3476.6	3443.3
10°	3419.8	3443.3	3418.4	3297.7	3095.1
12.5°	3383.7	3387.8	3331.0	2400.1	2597.1
15°	3375.4	3375.4	2670.6	3140.9	3354.6
17.5°	3300.4	3318.5	2706.7	3299.1	2559.6
20°	3276.9	3265.8	3225.5	2336.3	2809.3
22.5°	3188.1	3111.8	3114.5	3246.3	3233.9
25°	3150.6	2721.9	2236.4	3199.2	3179.8
27.5°	3061.8	2282.2	2841.2	3129.8	3125.6
30°	3010.5	2373.7	3050.7	3072.9	3060.4
32.5°	2902.3	2724.7	2974.4	3021.6	2900.9
35°	2824.6	2842.6	2892.6	2817.7	2649.8
37.5°	2731.6	2608.2	2830.1	2569.3	2816.3
40°	2599.8	2032.4	2723.3	2756.6	2269.7
42.5°	2506.9	1989.4	2543.0	2139.3	2337.6
45°	2383.4	2387.6	2257.2	2272.4	2508.3
47.5°	2254.4	2307.1	2401.5	2413.9	2042.1
50°	2137.9	2189.2	1895.1	2046.3	2207.2
52.5°	1992.2	2064.3	1879.8	2112.9	1992.2
55°	1863.2	1921.4	1988.0	1917.3	2044.9
57.5°	1698.1	1791.0	1702.2	1882.6	1662.0
60°	1560.7	1559.4	1669.0	1677.3	1290.2
62.5°	1395.6	1384.6	1484.4	1125.1	893.4
65°	1256.9	1227.8	1243.0	807.4	718.6
67.5°	1083.5	961.4	1023.8	674.2	707.5
70°	924.0	918.4	628.5	467.5	659.0
72.5°	765.8	833.8	495.3	584.1	570.2
75°	616.0	688.1	392.6	475.9	370.4
77.5°	462.0	499.4	387.1	291.3	180.4
80°	334.3	235.8	246.9	165.1	165.1
82.5°	216.4	194.2	144.3	154.0	145.7
85°	136.0	119.3	129.0	136.0	133.2
87.5°	47.2	81.9	102.7	99.9	91.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)