

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-LD5-22-W-CLWG-UNV-L850-CD2-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 (P34178)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-22-W-CLWG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUION

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

Summary

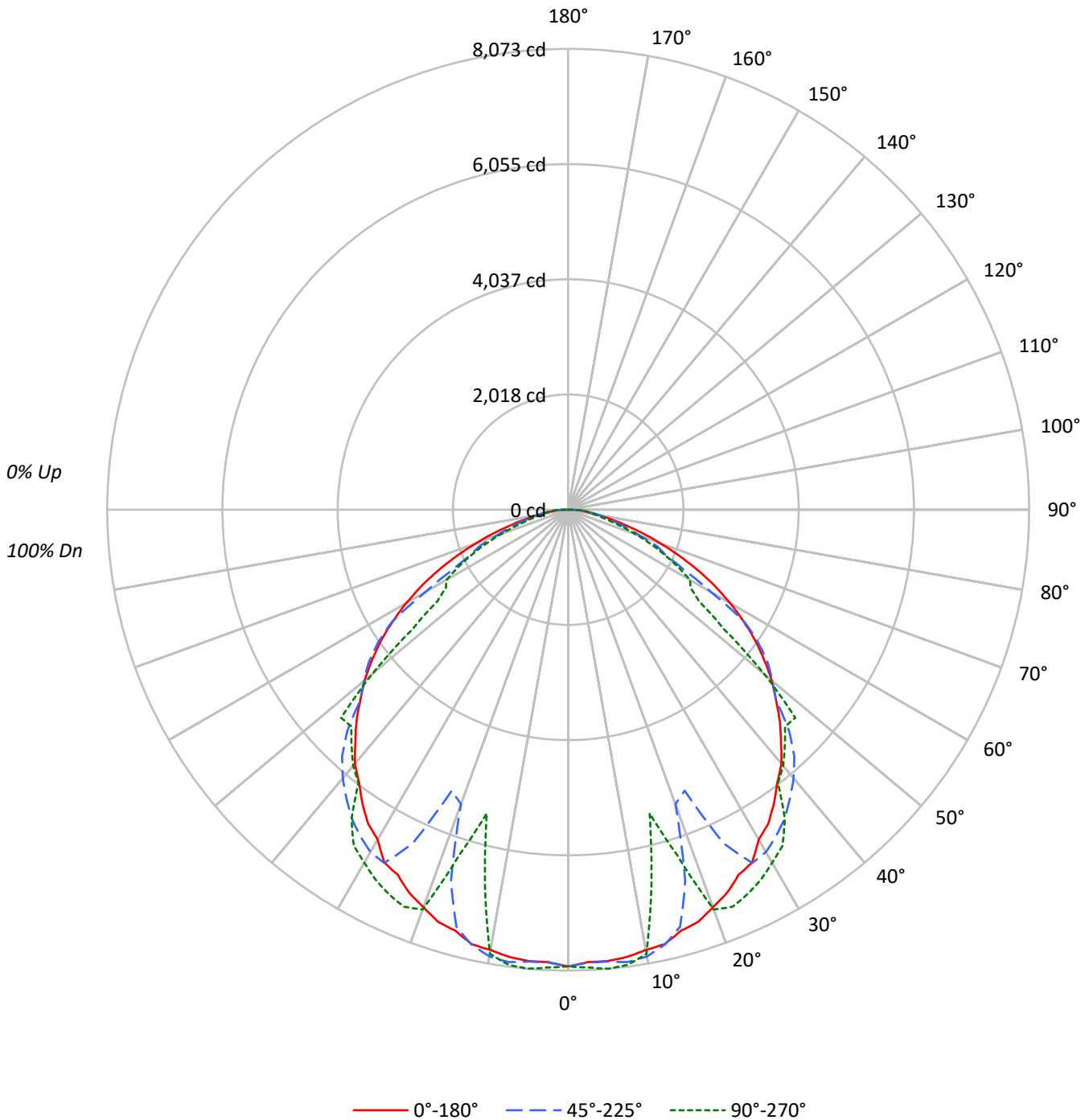
Lumens per Lamp: N/A
Luminaire Lumens: 20718.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
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



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11743	11743	11743
5°	11683	11619	11783
10°	11649	11664	11550
15°	11564	11239	8131
20°	11525	8311	11199
25°	11368	10045	11453
30°	11227	11182	11388
35°	11156	11165	11013
40°	11016	10977	10279
45°	10751	10451	10049
50°	10466	9669	9081
55°	10058	9268	6184
60°	9415	7414	6084
65°	8468	5518	5241
70°	7098	4705	4160
75°	5561	3771	3063
80°	4232	3215	2336
85°	3830	2738	2342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.6	3.7
10°-20°	2013.4	9.7
20°-30°	3210.2	15.5
30°-40°	3853.1	18.6
40°-50°	4097.8	19.8
50°-60°	3352.5	16.2
60°-70°	2125.6	10.3
70°-80°	982.0	4.7
80°-90°	323.9	1.6
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°	5983.2	28.9
0°-40°	9836.3	47.5
0°-60°	17286.6	83.4
0°-90°	20718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8001	8001	8001	8001	8001	
5°	7938	7942	7945	8007	8073	754
15°	7636	7754	7566	5961	5507	2164
25°	7060	7080	6451	7366	7432	3270
35°	6280	4708	6606	6731	6616	3924
45°	5244	5267	5468	5333	5369	4039
55°	4000	4211	4066	3152	2793	3562
65°	2504	2546	1882	1895	1862	2469
75°	1026	974	878	813	760	1124
85°	260	283	322	322	312	281
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8000.7	8000.7	8000.7	8000.7	8000.7
2.5°	7931.6	7944.8	7941.5	8000.7	8027.0
5°	7938.2	7941.5	7944.8	8007.3	8073.1
7.5°	7902.0	7971.1	7994.1	7971.1	8040.2
10°	7833.0	7895.5	7944.8	7875.7	7898.7
12.5°	7796.8	7888.9	7806.6	7467.8	6730.9
15°	7635.6	7754.0	7566.5	5961.1	5507.1
17.5°	7569.8	7648.7	6819.7	5480.8	6339.4
20°	7411.9	7520.4	5487.3	7046.7	7454.6
22.5°	7267.1	7346.1	5326.1	7411.9	7527.0
25°	7059.9	7079.6	6451.2	7365.8	7431.6
27.5°	6971.0	6675.0	6977.6	7270.4	7306.6
30°	6671.7	6063.1	6925.0	7138.8	7142.1
32.5°	6520.3	5280.1	6776.9	6948.0	6984.2
35°	6280.2	4707.7	6605.9	6730.9	6615.7
37.5°	6017.0	4625.4	6378.9	6313.1	6033.4
40°	5809.7	5046.5	6142.0	5734.1	5855.8
42.5°	5517.0	5303.1	5859.1	5592.6	5615.6
45°	5243.9	5266.9	5467.6	5332.7	5368.9
47.5°	4934.7	5086.0	4931.4	5109.0	5395.2
50°	4651.7	4812.9	4668.2	4961.0	4493.8
52.5°	4329.3	4530.0	4408.3	3990.5	3447.7
55°	4000.4	4210.9	4066.2	3151.6	2793.0
57.5°	3641.8	3816.1	3664.8	2582.5	2536.4
60°	3276.6	3414.8	2901.6	2352.2	2464.0
62.5°	2891.7	2977.2	2289.7	2168.0	2161.4
65°	2503.5	2546.3	1881.8	1894.9	1862.0
67.5°	2098.9	2118.6	1694.2	1605.4	1556.1
70°	1710.7	1697.5	1355.4	1306.0	1260.0
72.5°	1355.4	1292.9	1102.1	1036.3	980.4
75°	1026.4	973.8	878.4	812.6	759.9
77.5°	763.2	733.6	687.6	694.1	582.3
80°	536.2	539.5	565.8	480.3	447.4
82.5°	371.7	391.5	404.6	398.1	388.2
85°	259.9	282.9	322.4	322.4	312.5
87.5°	131.6	194.1	259.9	276.3	269.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)