

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-L835-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-L835-CD2-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

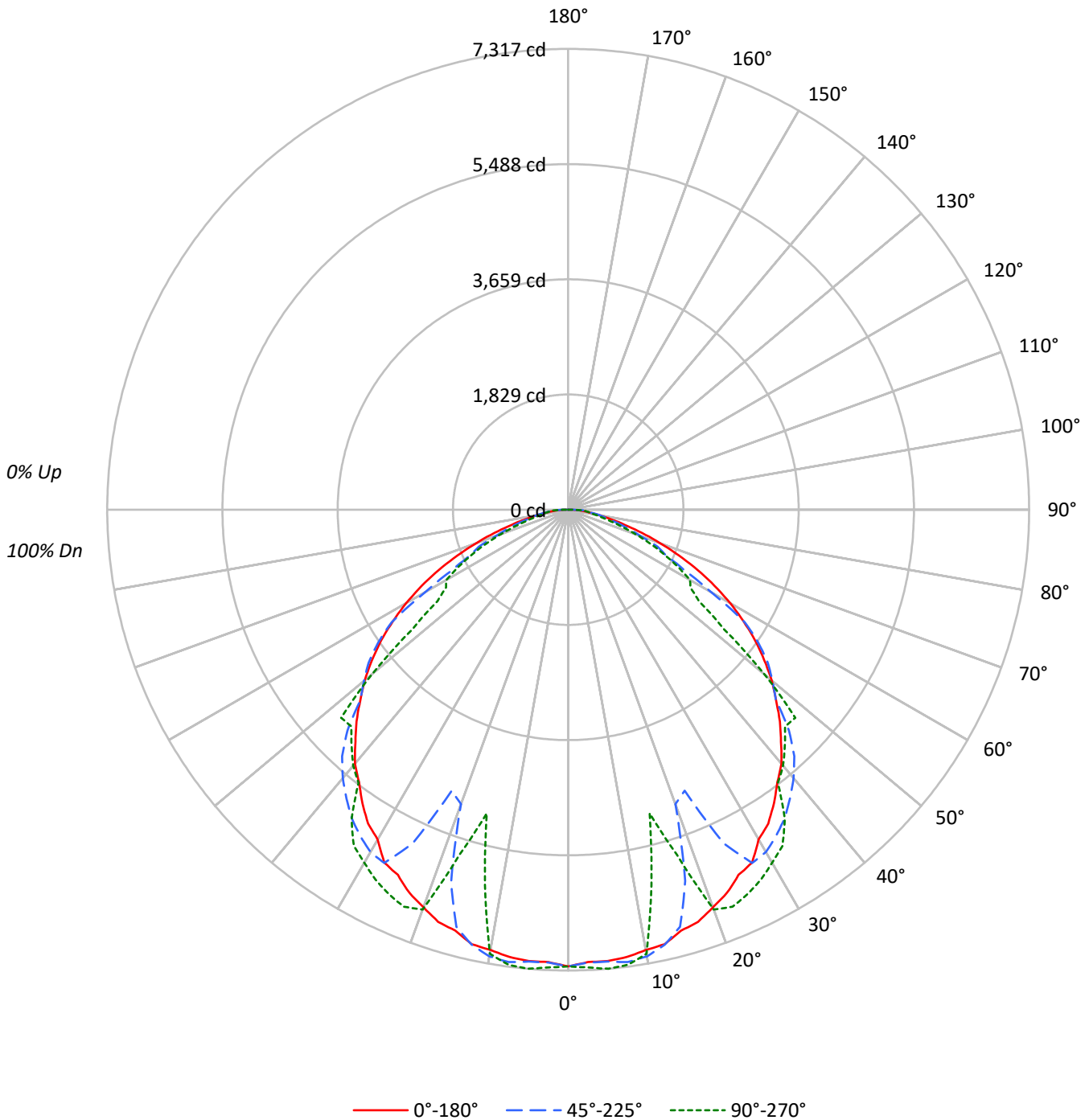
Lumens per Lamp: N/A
Luminaire Lumens: 18777.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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°	10643	10643	10643
5°	10589	10530	10679
10°	10558	10572	10468
15°	10481	10186	7369
20°	10445	7533	10150
25°	10302	9104	10380
30°	10175	10134	10321
35°	10110	10119	9981
40°	9984	9948	9316
45°	9744	9472	9107
50°	9486	8763	8230
55°	9115	8399	5605
60°	8533	6719	5514
65°	7675	5001	4750
70°	6433	4264	3770
75°	5040	3418	2776
80°	3836	2914	2118
85°	3470	2482	2123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.5	3.7
10°-20°	1824.7	9.7
20°-30°	2909.5	15.5
30°-40°	3492.1	18.6
40°-50°	3713.9	19.8
50°-60°	3038.4	16.2
60°-70°	1926.4	10.3
70°-80°	890.0	4.7
80°-90°	293.5	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°	5422.7	28.9
0°-40°	8914.8	47.5
0°-60°	15667.1	83.4
0°-90°	18777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7251	7251	7251	7251	7251	
5°	7194	7198	7200	7257	7317	684
15°	6920	7028	6858	5403	4991	1961
25°	6398	6416	5847	6676	6735	2964
35°	5692	4267	5987	6100	5996	3556
45°	4753	4774	4955	4833	4866	3661
55°	3626	3816	3685	2856	2531	3229
65°	2269	2308	1706	1717	1688	2237
75°	930	882	796	736	689	1019
85°	236	256	292	292	283	254
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7251.2	7251.2	7251.2	7251.2	7251.2
2.5°	7188.6	7200.5	7197.5	7251.2	7275.0
5°	7194.5	7197.5	7200.5	7257.1	7316.8
7.5°	7161.7	7224.3	7245.2	7224.3	7286.9
10°	7099.1	7155.8	7200.5	7137.9	7158.7
12.5°	7066.3	7149.8	7075.3	6768.2	6100.3
15°	6920.2	7027.6	6857.6	5402.6	4991.1
17.5°	6860.6	6932.1	6180.8	4967.3	5745.5
20°	6717.5	6815.9	4973.3	6386.5	6756.2
22.5°	6586.3	6657.8	4827.2	6717.5	6821.8
25°	6398.4	6416.3	5846.9	6675.7	6735.4
27.5°	6317.9	6049.6	6323.9	6589.3	6622.1
30°	6046.6	5495.0	6276.2	6470.0	6473.0
32.5°	5909.5	4785.4	6142.0	6297.1	6329.9
35°	5691.8	4266.6	5987.0	6100.3	5995.9
37.5°	5453.3	4192.1	5781.3	5721.6	5468.2
40°	5265.4	4573.7	5566.6	5196.9	5307.2
42.5°	5000.1	4806.3	5310.2	5068.7	5089.5
45°	4752.6	4773.5	4955.4	4833.1	4865.9
47.5°	4472.3	4609.5	4469.4	4630.4	4889.8
50°	4215.9	4362.0	4230.8	4496.2	4072.8
52.5°	3923.7	4105.6	3995.3	3616.6	3124.7
55°	3625.6	3816.4	3685.2	2856.3	2531.3
57.5°	3300.6	3458.6	3321.5	2340.5	2298.8
60°	2969.6	3094.9	2629.7	2131.8	2233.2
62.5°	2620.8	2698.3	2075.2	1964.9	1958.9
65°	2269.0	2307.7	1705.5	1717.4	1687.6
67.5°	1902.2	1920.1	1535.5	1455.0	1410.3
70°	1550.4	1538.5	1228.4	1183.7	1141.9
72.5°	1228.4	1171.8	998.8	939.2	888.5
75°	930.2	882.5	796.1	736.4	688.7
77.5°	691.7	664.9	623.1	629.1	527.7
80°	486.0	489.0	512.8	435.3	405.5
82.5°	336.9	354.8	366.7	360.8	351.8
85°	235.5	256.4	292.2	292.2	283.2
87.5°	119.3	175.9	235.5	250.5	244.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)