

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-CL-UNV-L840-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 (P34177)
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-CL-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

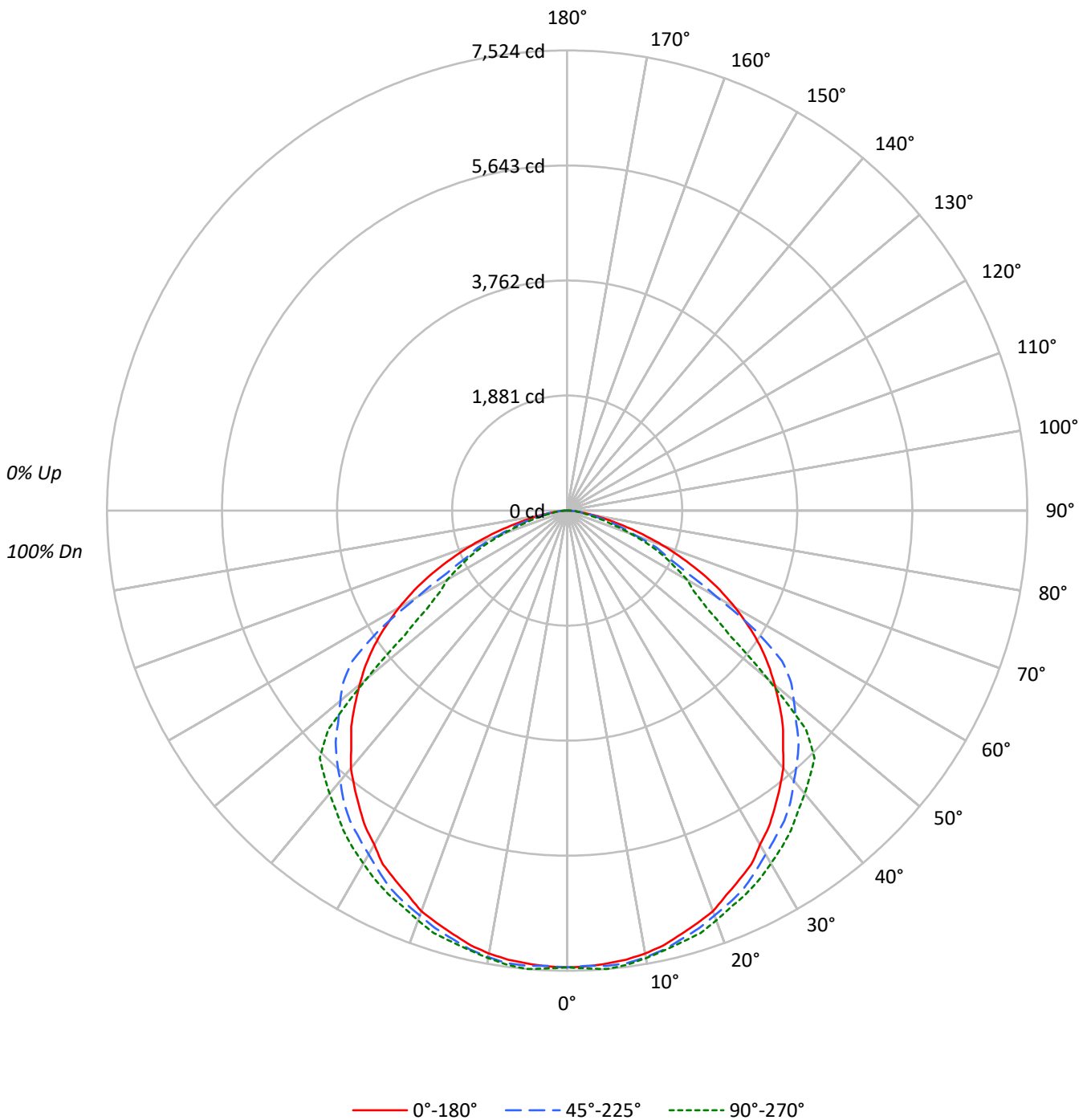
Lumens per Lamp: N/A
Luminaire Lumens: 20227.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
Input Voltage (V):
Input Current (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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	64	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	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10963	10963	10963
5°	10944	10927	10981
10°	10936	10886	10864
15°	10865	10769	10776
20°	10838	10672	10710
25°	10724	10626	10663
30°	10613	10484	10624
35°	10518	10465	10621
40°	10426	10310	10608
45°	10231	10231	10706
50°	9963	10028	8659
55°	9672	9780	6195
60°	9114	7227	5594
65°	8240	5306	4862
70°	6914	4170	3655
75°	5125	3095	2439
80°	3336	2177	1525
85°	1748	1317	1140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.8	3.5
10°-20°	2052.0	10.1
20°-30°	3141.6	15.5
30°-40°	3867.1	19.1
40°-50°	4098.6	20.3
50°-60°	3291.7	16.3
60°-70°	2045.8	10.1
70°-80°	841.9	4.2
80°-90°	176.4	0.9
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°	5905.4	29.2
0°-40°	9772.5	48.3
0°-60°	17162.9	84.9
0°-90°	20227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7469	7469	7469	7469	7469	
5°	7436	7454	7472	7512	7524	707
15°	7174	7274	7250	7299	7299	2027
25°	6660	6730	6824	6900	6919	3073
35°	5921	6067	6192	6347	6380	3708
45°	4990	5100	5352	5608	5720	3839
55°	3847	4017	4291	3062	2798	3424
65°	2436	2609	1810	1718	1727	2400
75°	946	870	721	645	605	1037
85°	119	146	155	155	152	169
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7469.1	7469.1	7469.1	7469.1	7469.1
2.5°	7456.9	7466.0	7450.8	7484.3	7493.4
5°	7435.6	7453.9	7472.1	7511.6	7523.8
7.5°	7405.2	7444.7	7466.0	7490.3	7490.3
10°	7353.5	7414.3	7414.3	7423.4	7429.5
12.5°	7280.5	7362.6	7347.4	7353.5	7362.6
15°	7174.1	7274.4	7250.1	7298.8	7298.8
17.5°	7073.7	7158.9	7161.9	7222.7	7244.0
20°	6970.3	7040.3	7046.3	7134.5	7128.5
22.5°	6803.0	6909.5	6939.9	6988.6	7012.9
25°	6660.1	6730.1	6824.3	6900.4	6918.6
27.5°	6523.3	6581.0	6657.1	6787.8	6803.0
30°	6307.3	6429.0	6492.9	6666.2	6663.2
32.5°	6137.0	6246.5	6337.8	6505.0	6529.3
35°	5921.1	6067.1	6191.8	6346.9	6380.3
37.5°	5711.3	5845.1	6000.2	6152.2	6197.9
40°	5498.4	5620.0	5769.1	5951.5	6042.8
42.5°	5224.7	5373.7	5568.3	5778.2	5881.6
45°	4990.5	5100.0	5352.4	5607.9	5720.4
47.5°	4707.7	4850.6	5072.6	5398.0	5294.6
50°	4427.9	4592.1	4841.5	4890.2	4285.0
52.5°	4151.2	4315.4	4616.5	3868.3	3351.3
55°	3847.1	4017.4	4291.1	3062.4	2797.9
57.5°	3515.6	3676.7	3652.4	2542.4	2451.2
60°	3171.9	3330.1	2828.3	2226.1	2265.7
62.5°	2816.1	2986.4	2220.0	2034.5	1973.7
65°	2436.0	2609.3	1809.5	1718.2	1727.4
67.5°	2040.6	2186.6	1587.5	1465.8	1435.4
70°	1666.5	1709.1	1201.3	1167.8	1107.0
72.5°	1292.5	1237.7	954.9	881.9	818.1
75°	945.8	869.8	720.8	644.7	605.2
77.5°	656.9	602.1	520.0	547.4	404.5
80°	422.7	392.3	383.2	304.1	292.0
82.5°	249.4	246.3	237.2	219.0	212.9
85°	118.6	146.0	155.1	155.1	152.1
87.5°	42.6	73.0	97.3	103.4	109.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)