

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-WG-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 (P34174)
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-WG-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20447.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

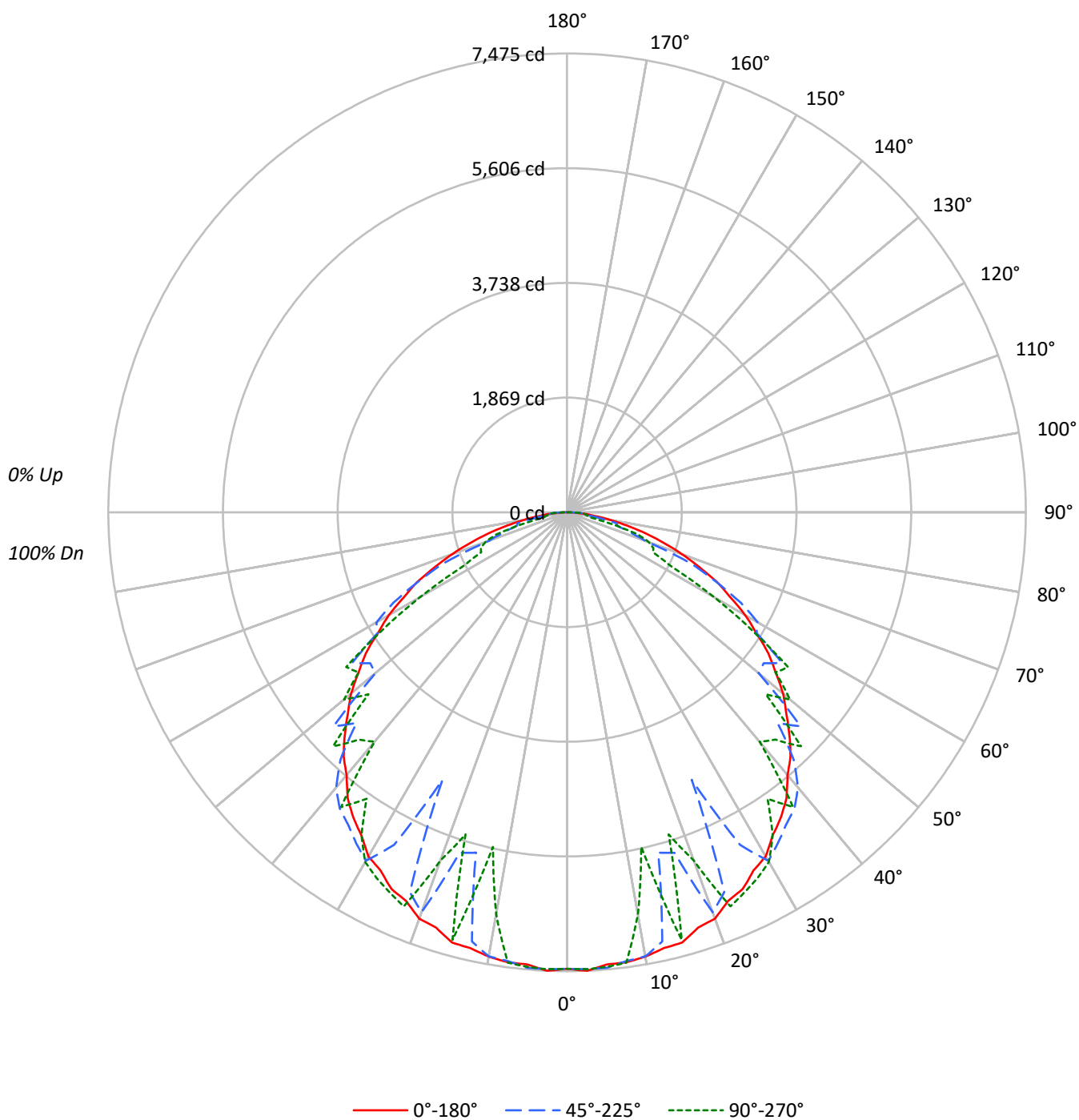
Input Watts (W): 167.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	10915	10915	10915
5°	10883	10892	10848
10°	10930	10786	9727
15°	10987	8525	10644
20°	10951	10499	9071
25°	10903	7484	10532
30°	10887	10587	10487
35°	10783	10507	9480
40°	10595	10460	8562
45°	10502	9272	10089
50°	10338	8436	9586
55°	10067	9738	9730
60°	9638	9165	6847
65°	9137	7834	4347
70°	8239	4689	4676
75°	7173	3623	3209
80°	5672	3016	1853
85°	4306	2355	2145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.4	3.4
10°-20°	1880.7	9.2
20°-30°	2916.3	14.3
30°-40°	3738.7	18.3
40°-50°	3828.8	18.7
50°-60°	3630.7	17.8
60°-70°	2325.5	11.4
70°-80°	1130.0	5.5
80°-90°	291.8	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°	5501.4	26.9
0°-40°	9240.1	45.2
0°-60°	16699.6	81.7
0°-90°	20447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7436	7436	7436	7436	7436	
5°	7394	7415	7448	7466	7433	706
15°	7254	7254	5740	6750	7209	2037
25°	6771	5850	4806	6876	6834	3112
35°	6070	6109	6217	6056	5695	3792
45°	5122	5131	4851	4884	5391	3948
55°	4004	4130	4273	4120	4395	3558
65°	2701	2639	2672	1735	1544	2647
75°	1324	1479	844	1023	796	1401
85°	292	256	277	292	286	331
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7436.0	7436.0	7436.0	7436.0	7436.0
2.5°	7474.8	7480.8	7448.0	7436.0	7450.9
5°	7394.3	7415.2	7448.0	7465.8	7433.1
7.5°	7391.3	7400.3	7373.4	7471.8	7400.3
10°	7349.6	7400.3	7346.6	7087.2	6651.9
12.5°	7272.0	7281.0	7158.7	5158.1	5581.5
15°	7254.2	7254.2	5739.5	6750.3	7209.4
17.5°	7093.2	7131.9	5817.0	7090.2	5501.0
20°	7042.5	7018.6	6932.1	5021.0	6037.7
22.5°	6851.6	6687.7	6693.6	6976.9	6950.0
25°	6771.1	5849.8	4806.3	6875.5	6833.8
27.5°	6580.3	4904.7	6106.3	6726.4	6717.5
30°	6470.0	5101.5	6556.5	6604.2	6577.3
32.5°	6237.4	5855.8	6392.5	6493.9	6234.5
35°	6070.5	6109.2	6216.6	6055.6	5694.8
37.5°	5870.7	5605.3	6082.4	5521.9	6052.6
40°	5587.5	4368.0	5852.8	5924.4	4877.8
42.5°	5387.7	4275.6	5465.2	4597.6	5023.9
45°	5122.3	5131.3	4851.0	4883.8	5390.7
47.5°	4845.0	4958.3	5161.1	5187.9	4388.9
50°	4594.6	4704.9	4072.8	4397.8	4743.7
52.5°	4281.5	4436.6	4040.0	4540.9	4281.5
55°	4004.2	4129.5	4272.6	4120.5	4394.8
57.5°	3649.4	3849.2	3658.4	4046.0	3571.9
60°	3354.3	3351.3	3586.8	3604.7	2772.9
62.5°	2999.5	2975.6	3190.3	2418.1	1920.1
65°	2701.3	2638.7	2671.5	1735.3	1544.5
67.5°	2328.6	2066.2	2200.4	1449.0	1520.6
70°	1985.7	1973.8	1350.7	1004.8	1416.2
72.5°	1645.8	1791.9	1064.4	1255.2	1225.4
75°	1323.8	1478.9	843.8	1022.7	796.1
77.5°	992.9	1073.4	831.9	626.1	387.6
80°	718.6	506.9	530.7	354.8	354.8
82.5°	465.1	417.4	310.1	331.0	313.1
85°	292.2	256.4	277.3	292.2	286.2
87.5°	101.4	175.9	220.6	214.7	196.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)