

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-LD5-32-W-ASYWG-UNV-L850-CD4-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 (P34184)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-32-W-ASYWG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

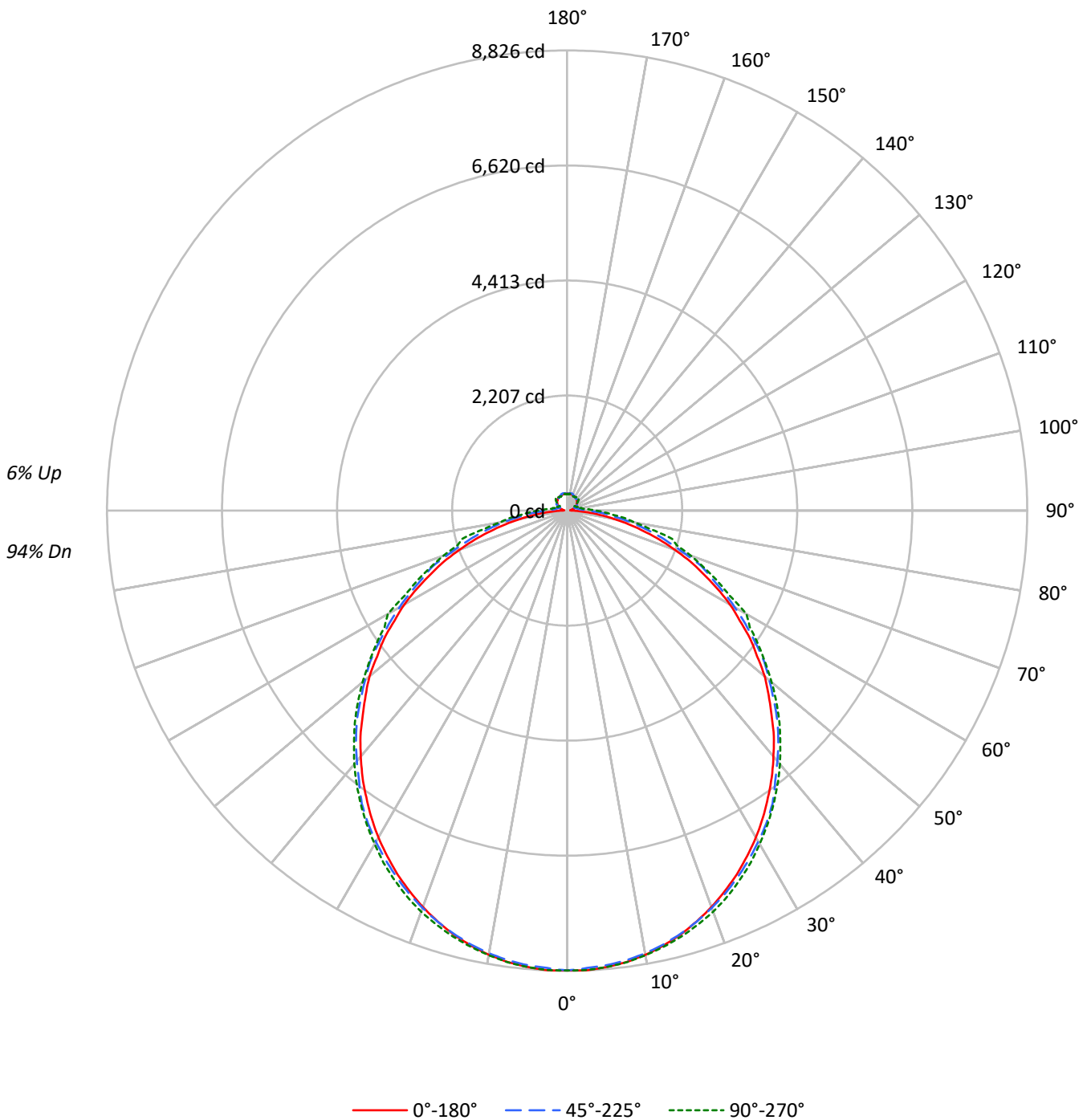
Lumens per Lamp: N/A
Luminaire Lumens: 26580.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	91	94	91	87	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	76	72	78	73	69	74	70	67	65
3	88	78	70	63	85	76	68	62	72	66	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	46
5	74	62	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	40	52	44	39	49	43	38	47	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12948	12948	12948
5°	12933	12800	12824
10°	12865	12658	12664
15°	12748	12481	12485
20°	12582	12285	12302
25°	12395	12070	12058
30°	12184	11841	11777
35°	11929	11605	11479
40°	11673	11211	11148
45°	11365	10903	10776
50°	11138	10485	10347
55°	10783	10030	9905
60°	10382	9492	9809
65°	9770	8941	8910
70°	9099	8306	8317
75°	8221	7579	8408
80°	7139	6853	6882
85°	5947	6278	6451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.7	3.1
10°-20°	2377.4	8.9
20°-30°	3576.7	13.5
30°-40°	4274.9	16.1
40°-50°	4385.7	16.5
50°-60°	3935.4	14.8
60°-70°	3023.8	11.4
70°-80°	1850.2	7.0
80°-90°	784.6	3.0
90°-100°	276.2	1.0
100°-110°	193.1	0.7
110°-120°	180.2	0.7
120°-130°	209.9	0.8
130°-140°	222.2	0.8
140°-150°	188.0	0.7
150°-160°	143.5	0.5
160°-170°	93.1	0.4
170°-180°	31.2	0.1
0°-30°	6787.9	25.5
0°-40°	11062.8	41.6
0°-60°	19383.8	72.9
0°-90°	25042.4	94.2
90°-120°	649.5	2.4
90°-150°	1269.8	4.8
90°-180°	1538.0	5.8
0°-180°	26580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8821	8821	8821	8821	8821	
5°	8787	8787	8753	8787	8787	835
15°	8417	8422	8403	8447	8456	2373
25°	7698	7712	7751	7819	7824	3546
35°	6715	6803	6866	6881	6895	4203
45°	5544	5641	5704	5748	5758	4287
55°	4289	4328	4401	4464	4474	3822
65°	2888	2942	3049	3146	3166	2870
75°	1517	1600	1765	1867	2086	1616
85°	404	550	739	836	861	432
90°	78	219	418	530	554	60
95°	63	151	258	345	360	58
105°	122	117	175	277	258	127
115°	180	199	151	175	185	180
125°	228	228	272	233	194	205
135°	268	263	287	321	311	205
145°	292	302	287	302	316	183
155°	311	331	311	297	297	144
165°	321	331	340	331	321	91
175°	326	326	326	326	316	31
180°	321	321	321	321	321	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-W-ASYWG-UNV-L850-CD4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8821.0	8821.0	8821.0	8821.0	8821.0
2.5°	8825.9	8821.0	8782.1	8811.3	8821.0
5°	8787.0	8787.0	8752.9	8787.0	8787.0
7.5°	8733.5	8728.6	8699.4	8728.6	8738.3
10°	8650.8	8650.8	8621.6	8655.7	8660.5
12.5°	8543.8	8548.7	8524.4	8558.4	8568.1
15°	8417.4	8422.3	8402.8	8446.6	8456.3
17.5°	8261.8	8271.5	8266.6	8315.3	8329.9
20°	8091.6	8120.8	8111.0	8174.3	8188.8
22.5°	7901.9	7921.4	7940.8	8008.9	8018.6
25°	7697.7	7712.3	7751.2	7819.3	7824.1
27.5°	7474.0	7512.9	7547.0	7600.5	7619.9
30°	7240.6	7294.1	7333.0	7381.6	7386.5
32.5°	6987.7	7060.7	7109.3	7133.6	7148.2
35°	6715.4	6803.0	6866.2	6880.8	6895.4
37.5°	6448.0	6540.4	6555.0	6623.0	6627.9
40°	6156.2	6263.2	6272.9	6336.1	6350.7
42.5°	5869.3	5927.7	5995.7	6054.1	6049.2
45°	5543.5	5640.8	5704.0	5747.8	5757.5
47.5°	5242.0	5353.9	5373.3	5426.8	5446.3
50°	4950.3	5037.8	5062.1	5130.2	5120.5
52.5°	4595.3	4692.5	4765.5	4789.8	4789.8
55°	4288.9	4327.8	4400.8	4464.0	4473.7
57.5°	3924.2	3987.4	4055.5	4143.0	4152.8
60°	3613.0	3661.6	3715.1	3861.0	3972.9
62.5°	3248.3	3296.9	3374.7	3496.3	3496.3
65°	2888.5	2942.0	3048.9	3146.2	3165.6
67.5°	2562.7	2611.3	2791.2	2815.5	2830.1
70°	2193.1	2256.3	2392.5	2484.9	2518.9
72.5°	1857.6	1915.9	2061.8	2178.5	2198.0
75°	1517.2	1599.8	1765.2	1867.3	2086.1
77.5°	1206.0	1308.1	1463.7	1585.3	1629.0
80°	904.5	1016.3	1206.0	1298.3	1317.8
82.5°	627.3	773.2	938.5	1074.7	1108.7
85°	403.6	549.5	739.1	836.4	860.7
87.5°	214.0	369.6	554.4	671.1	700.2
90°	77.8	218.8	418.2	530.0	554.4
92.5°	68.1	155.6	316.1	413.3	437.6
95°	63.2	150.7	257.7	345.3	359.8
97.5°	72.9	131.3	228.5	272.3	286.9
100°	87.5	116.7	218.8	262.6	277.2
102.5°	102.1	107.0	199.4	238.3	238.3
105°	121.6	116.7	175.1	277.2	257.7
107.5°	136.2	155.6	170.2	204.2	223.7
110°	155.6	170.2	150.7	194.5	199.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.2	189.6	150.7	189.6	189.6
115°	179.9	199.4	150.7	175.1	184.8
117.5°	194.5	204.2	189.6	170.2	170.2
120°	209.1	209.1	233.4	165.3	165.3
122.5°	218.8	218.8	248.0	184.8	165.3
125°	228.5	228.5	272.3	233.4	194.5
127.5°	238.3	238.3	282.0	267.5	243.1
130°	248.0	243.1	291.8	286.9	272.3
132.5°	257.7	252.9	291.8	301.5	291.8
135°	267.5	262.6	286.9	320.9	311.2
137.5°	272.3	272.3	282.0	325.8	325.8
140°	282.0	282.0	282.0	320.9	335.5
142.5°	286.9	291.8	286.9	311.2	325.8
145°	291.8	301.5	286.9	301.5	316.1
147.5°	296.6	311.2	286.9	301.5	301.5
150°	306.4	316.1	291.8	296.6	301.5
152.5°	306.4	325.8	301.5	296.6	296.6
155°	311.2	330.7	311.2	296.6	296.6
157.5°	316.1	330.7	316.1	301.5	296.6
160°	316.1	335.5	325.8	311.2	301.5
162.5°	320.9	335.5	335.5	320.9	311.2
165°	320.9	330.7	340.4	330.7	320.9
167.5°	320.9	330.7	340.4	335.5	325.8
170°	325.8	330.7	335.5	335.5	325.8
172.5°	325.8	325.8	330.7	330.7	325.8
175°	325.8	325.8	325.8	325.8	316.1
177.5°	325.8	325.8	325.8	320.9	311.2
180°	320.9	320.9	320.9	320.9	320.9

(END OF REPORT)