

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-LD5-28-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-LD5-28-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: 22871.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

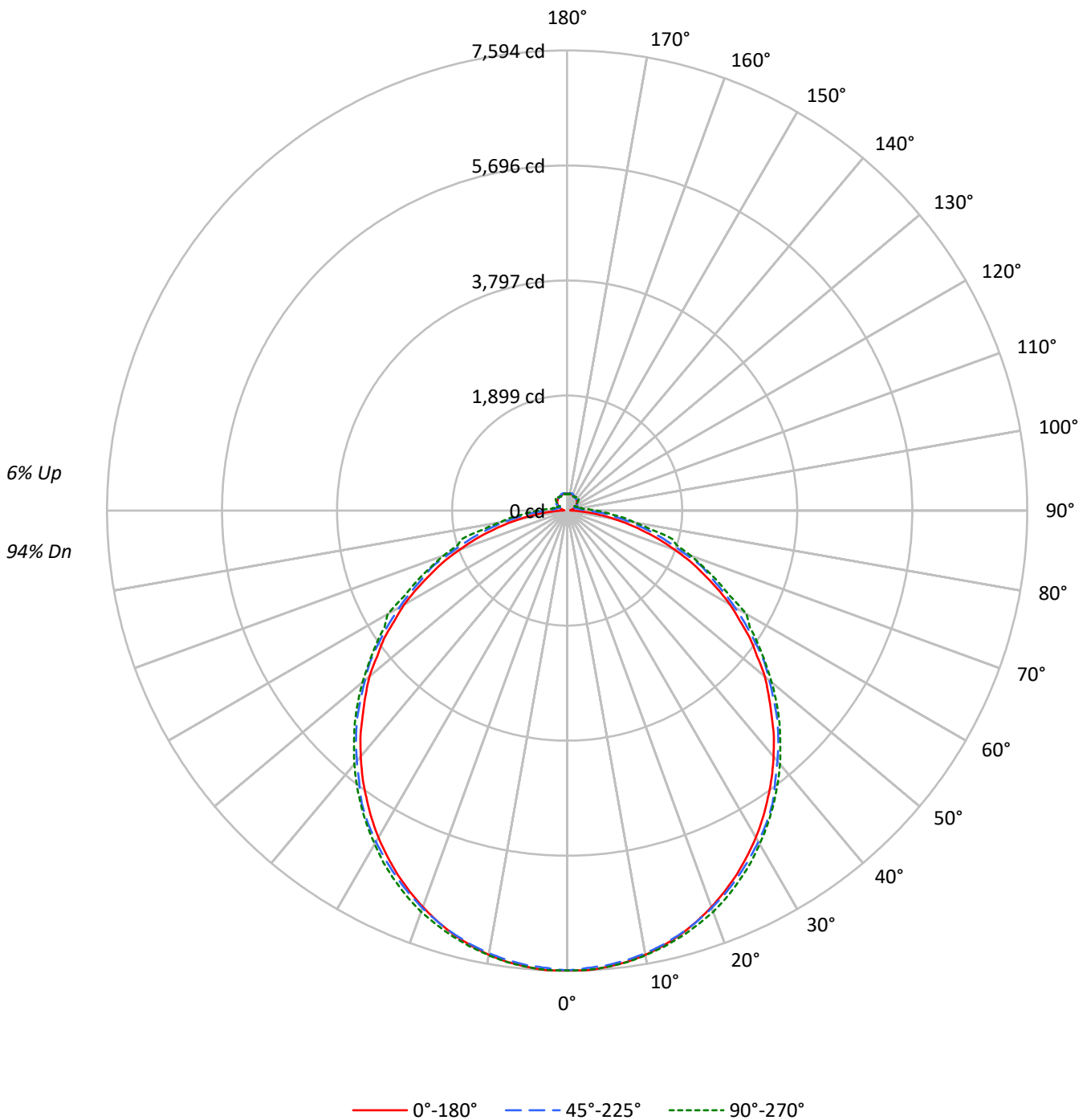
Input Watts (W): 204
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11141	11141	11141
5°	11128	11014	11035
10°	11070	10892	10897
15°	10969	10740	10743
20°	10826	10571	10586
25°	10665	10385	10375
30°	10484	10188	10134
35°	10264	9985	9877
40°	10045	9646	9592
45°	9779	9381	9272
50°	9584	9022	8903
55°	9278	8631	8523
60°	8933	8168	8441
65°	8407	7693	7667
70°	7830	7146	7157
75°	7074	6521	7234
80°	6143	5896	5921
85°	5118	5402	5551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.4	3.1
10°-20°	2045.7	8.9
20°-30°	3077.6	13.5
30°-40°	3678.3	16.1
40°-50°	3773.7	16.5
50°-60°	3386.2	14.8
60°-70°	2601.9	11.4
70°-80°	1592.0	7.0
80°-90°	675.1	3.0
90°-100°	237.7	1.0
100°-110°	166.2	0.7
110°-120°	155.1	0.7
120°-130°	180.7	0.8
130°-140°	191.2	0.8
140°-150°	161.8	0.7
150°-160°	123.4	0.5
160°-170°	80.1	0.4
170°-180°	26.9	0.1
0°-30°	5840.7	25.5
0°-40°	9519.1	41.6
0°-60°	16679.0	72.9
0°-90°	21547.9	94.2
90°-120°	558.9	2.4
90°-150°	1092.6	4.8
90°-180°	1323.0	5.8
0°-180°	22871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7590	7590	7590	7590	7590	
5°	7561	7561	7532	7561	7561	718
15°	7243	7247	7230	7268	7276	2042
25°	6624	6636	6670	6728	6732	3051
35°	5778	5854	5908	5921	5933	3617
45°	4770	4854	4908	4946	4954	3689
55°	3690	3724	3787	3841	3849	3288
65°	2485	2531	2624	2707	2724	2470
75°	1306	1377	1519	1607	1795	1391
85°	347	473	636	720	741	372
90°	67	188	360	456	477	52
95°	54	130	222	297	310	50
105°	105	100	151	238	222	109
115°	155	172	130	151	159	155
125°	197	197	234	201	167	176
135°	230	226	247	276	268	177
145°	251	259	247	259	272	158
155°	268	284	268	255	255	124
165°	276	284	293	284	276	78
175°	280	280	280	280	272	27
180°	276	276	276	276	276	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-W-ASYWG-UNV-L850-CD4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7590.1	7590.1	7590.1	7590.1	7590.1
2.5°	7594.3	7590.1	7556.6	7581.7	7590.1
5°	7560.8	7560.8	7531.5	7560.8	7560.8
7.5°	7514.8	7510.6	7485.5	7510.6	7519.0
10°	7443.7	7443.7	7418.6	7447.8	7452.0
12.5°	7351.6	7355.8	7334.9	7364.2	7372.5
15°	7242.8	7247.0	7230.3	7267.9	7276.3
17.5°	7108.9	7117.3	7113.1	7155.0	7167.5
20°	6962.5	6987.6	6979.2	7033.6	7046.2
22.5°	6799.3	6816.0	6832.8	6891.3	6899.7
25°	6623.6	6636.1	6669.6	6728.2	6732.3
27.5°	6431.1	6464.6	6493.9	6539.9	6556.6
30°	6230.2	6276.3	6309.7	6351.6	6355.8
32.5°	6012.7	6075.4	6117.3	6138.2	6150.7
35°	5778.4	5853.7	5908.1	5920.6	5933.2
37.5°	5548.2	5627.7	5640.3	5698.9	5703.0
40°	5297.2	5389.2	5397.6	5452.0	5464.5
42.5°	5050.3	5100.5	5159.1	5209.3	5205.1
45°	4770.0	4853.7	4908.0	4945.7	4954.1
47.5°	4510.5	4606.8	4623.5	4669.5	4686.3
50°	4259.5	4334.8	4355.7	4414.3	4405.9
52.5°	3954.1	4037.7	4100.5	4121.4	4121.4
55°	3690.4	3723.9	3786.7	3841.1	3849.4
57.5°	3376.6	3431.0	3489.6	3564.9	3573.3
60°	3108.8	3150.7	3196.7	3322.2	3418.5
62.5°	2795.0	2836.9	2903.8	3008.4	3008.4
65°	2485.4	2531.4	2623.5	2707.2	2723.9
67.5°	2205.1	2246.9	2401.7	2422.6	2435.2
70°	1887.1	1941.5	2058.6	2138.1	2167.4
72.5°	1598.4	1648.6	1774.1	1874.5	1891.3
75°	1305.5	1376.6	1518.9	1606.7	1795.0
77.5°	1037.7	1125.5	1259.4	1364.0	1401.7
80°	778.3	874.5	1037.7	1117.2	1133.9
82.5°	539.8	665.3	807.5	924.7	954.0
85°	347.3	472.8	636.0	719.7	740.6
87.5°	184.1	318.0	477.0	577.4	602.5
90°	66.9	188.3	359.8	456.1	477.0
92.5°	58.6	133.9	272.0	355.7	376.6
95°	54.4	129.7	221.8	297.1	309.6
97.5°	62.8	113.0	196.7	234.3	246.9
100°	75.3	100.4	188.3	225.9	238.5
102.5°	87.9	92.1	171.6	205.0	205.0
105°	104.6	100.4	150.6	238.5	221.8
107.5°	117.2	133.9	146.4	175.7	192.5
110°	133.9	146.4	129.7	167.4	171.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.4	163.2	129.7	163.2	163.2
115°	154.8	171.6	129.7	150.6	159.0
117.5°	167.4	175.7	163.2	146.4	146.4
120°	179.9	179.9	200.8	142.3	142.3
122.5°	188.3	188.3	213.4	159.0	142.3
125°	196.7	196.7	234.3	200.8	167.4
127.5°	205.0	205.0	242.7	230.1	209.2
130°	213.4	209.2	251.1	246.9	234.3
132.5°	221.8	217.6	251.1	259.4	251.1
135°	230.1	225.9	246.9	276.2	267.8
137.5°	234.3	234.3	242.7	280.3	280.3
140°	242.7	242.7	242.7	276.2	288.7
142.5°	246.9	251.1	246.9	267.8	280.3
145°	251.1	259.4	246.9	259.4	272.0
147.5°	255.2	267.8	246.9	259.4	259.4
150°	263.6	272.0	251.1	255.2	259.4
152.5°	263.6	280.3	259.4	255.2	255.2
155°	267.8	284.5	267.8	255.2	255.2
157.5°	272.0	284.5	272.0	259.4	255.2
160°	272.0	288.7	280.3	267.8	259.4
162.5°	276.2	288.7	288.7	276.2	267.8
165°	276.2	284.5	292.9	284.5	276.2
167.5°	276.2	284.5	292.9	288.7	280.3
170°	280.3	284.5	288.7	288.7	280.3
172.5°	280.3	280.3	284.5	284.5	280.3
175°	280.3	280.3	280.3	280.3	272.0
177.5°	280.3	280.3	280.3	276.2	267.8
180°	276.2	276.2	276.2	276.2	276.2

(END OF REPORT)