

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: **4ILED-LD5-5-W-ASYWG-UNV-L840-CD1-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: 4ILED-LD5-5-W-ASYWG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

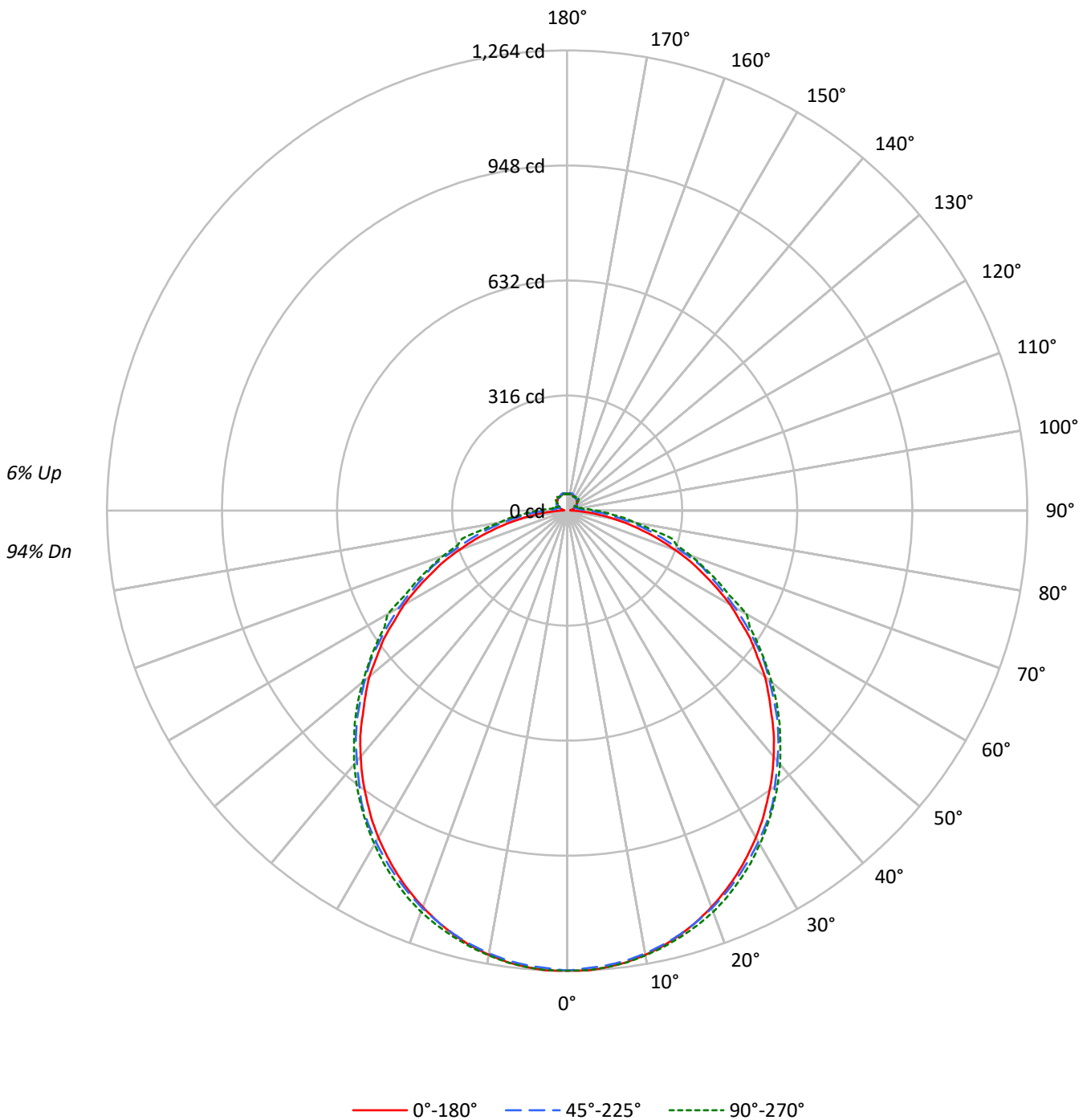
Lumens per Lamp: N/A
Luminaire Lumens: 3808.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
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



TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-5-W-ASYWG-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-ASYWG-UNV-L840-CD1-U

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	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°	3710	3710	3710
5°	3702	3665	3675
10°	3678	3621	3629
15°	3641	3568	3577
20°	3589	3509	3525
25°	3531	3445	3455
30°	3466	3376	3374
35°	3389	3306	3289
40°	3311	3190	3194
45°	3217	3099	3087
50°	3145	2976	2965
55°	3037	2842	2838
60°	2913	2684	2811
65°	2728	2521	2553
70°	2523	2334	2383
75°	2255	2119	2409
80°	1919	1900	1972
85°	1514	1712	1848



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-ASYWG-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.1
10°-20°	340.6	8.9
20°-30°	512.4	13.5
30°-40°	612.4	16.1
40°-50°	628.3	16.5
50°-60°	563.8	14.8
60°-70°	433.2	11.4
70°-80°	265.1	7.0
80°-90°	112.4	3.0
90°-100°	39.6	1.0
100°-110°	27.7	0.7
110°-120°	25.8	0.7
120°-130°	30.1	0.8
130°-140°	31.8	0.8
140°-150°	26.9	0.7
150°-160°	20.6	0.5
160°-170°	13.3	0.4
170°-180°	4.5	0.1
0°-30°	972.5	25.5
0°-40°	1584.9	41.6
0°-60°	2777.0	72.9
0°-90°	3587.7	94.2
90°-120°	93.1	2.4
90°-150°	181.9	4.8
90°-180°	220.0	5.8
0°-180°	3808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1259	1259	1254	1259	1259	120
15°	1206	1207	1204	1210	1212	340
25°	1103	1105	1110	1120	1121	508
35°	962	975	984	986	988	602
45°	794	808	817	824	825	614
55°	614	620	630	640	641	548
65°	414	422	437	451	454	411
75°	217	229	253	268	299	232
85°	58	79	106	120	123	62
90°	11	31	60	76	79	9
95°	9	22	37	50	52	8
105°	17	17	25	40	37	18
115°	26	29	22	25	26	26
125°	33	33	39	33	28	29
135°	38	38	41	46	45	29
145°	42	43	41	43	45	26
155°	45	47	45	42	42	21
165°	46	47	49	47	46	13
175°	47	47	47	47	45	4
180°	46	46	46	46	46	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-ASYWG-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1263.7	1263.7	1263.7	1263.7	1263.7
2.5°	1264.4	1263.7	1258.2	1262.4	1263.7
5°	1258.9	1258.9	1254.0	1258.9	1258.9
7.5°	1251.2	1250.5	1246.3	1250.5	1251.9
10°	1239.4	1239.4	1235.2	1240.1	1240.8
12.5°	1224.0	1224.7	1221.2	1226.1	1227.5
15°	1205.9	1206.6	1203.8	1210.1	1211.5
17.5°	1183.6	1185.0	1184.3	1191.3	1193.4
20°	1159.2	1163.4	1162.0	1171.1	1173.2
22.5°	1132.1	1134.9	1137.6	1147.4	1148.8
25°	1102.8	1104.9	1110.5	1120.2	1120.9
27.5°	1070.8	1076.3	1081.2	1088.9	1091.7
30°	1037.3	1045.0	1050.6	1057.5	1058.2
32.5°	1001.1	1011.6	1018.5	1022.0	1024.1
35°	962.1	974.6	983.7	985.8	987.9
37.5°	923.8	937.0	939.1	948.9	949.6
40°	882.0	897.3	898.7	907.8	909.8
42.5°	840.9	849.2	859.0	867.3	866.6
45°	794.2	808.1	817.2	823.5	824.8
47.5°	751.0	767.0	769.8	777.5	780.3
50°	709.2	721.7	725.2	735.0	733.6
52.5°	658.3	672.3	682.7	686.2	686.2
55°	614.5	620.0	630.5	639.5	640.9
57.5°	562.2	571.3	581.0	593.6	594.9
60°	517.6	524.6	532.3	553.1	569.2
62.5°	465.4	472.3	483.5	500.9	500.9
65°	413.8	421.5	436.8	450.7	453.5
67.5°	367.1	374.1	399.9	403.4	405.5
70°	314.2	323.3	342.8	356.0	360.9
72.5°	266.1	274.5	295.4	312.1	314.9
75°	217.4	229.2	252.9	267.5	298.9
77.5°	172.8	187.4	209.7	227.1	233.4
80°	129.6	145.6	172.8	186.0	188.8
82.5°	89.9	110.8	134.5	154.0	158.8
85°	57.8	78.7	105.9	119.8	123.3
87.5°	30.7	52.9	79.4	96.1	100.3
90°	11.1	31.3	59.9	75.9	79.4
92.5°	9.8	22.3	45.3	59.2	62.7
95°	9.1	21.6	36.9	49.5	51.6
97.5°	10.4	18.8	32.7	39.0	41.1
100°	12.5	16.7	31.3	37.6	39.7
102.5°	14.6	15.3	28.6	34.1	34.1
105°	17.4	16.7	25.1	39.7	36.9
107.5°	19.5	22.3	24.4	29.3	32.0
110°	22.3	24.4	21.6	27.9	28.6



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-ASYWG-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.4	27.2	21.6	27.2	27.2
115°	25.8	28.6	21.6	25.1	26.5
117.5°	27.9	29.3	27.2	24.4	24.4
120°	30.0	30.0	33.4	23.7	23.7
122.5°	31.3	31.3	35.5	26.5	23.7
125°	32.7	32.7	39.0	33.4	27.9
127.5°	34.1	34.1	40.4	38.3	34.8
130°	35.5	34.8	41.8	41.1	39.0
132.5°	36.9	36.2	41.8	43.2	41.8
135°	38.3	37.6	41.1	46.0	44.6
137.5°	39.0	39.0	40.4	46.7	46.7
140°	40.4	40.4	40.4	46.0	48.1
142.5°	41.1	41.8	41.1	44.6	46.7
145°	41.8	43.2	41.1	43.2	45.3
147.5°	42.5	44.6	41.1	43.2	43.2
150°	43.9	45.3	41.8	42.5	43.2
152.5°	43.9	46.7	43.2	42.5	42.5
155°	44.6	47.4	44.6	42.5	42.5
157.5°	45.3	47.4	45.3	43.2	42.5
160°	45.3	48.1	46.7	44.6	43.2
162.5°	46.0	48.1	48.1	46.0	44.6
165°	46.0	47.4	48.8	47.4	46.0
167.5°	46.0	47.4	48.8	48.1	46.7
170°	46.7	47.4	48.1	48.1	46.7
172.5°	46.7	46.7	47.4	47.4	46.7
175°	46.7	46.7	46.7	46.7	45.3
177.5°	46.7	46.7	46.7	46.0	44.6
180°	46.0	46.0	46.0	46.0	46.0

(END OF REPORT)