

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-FL-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 (P34181)
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-FL-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

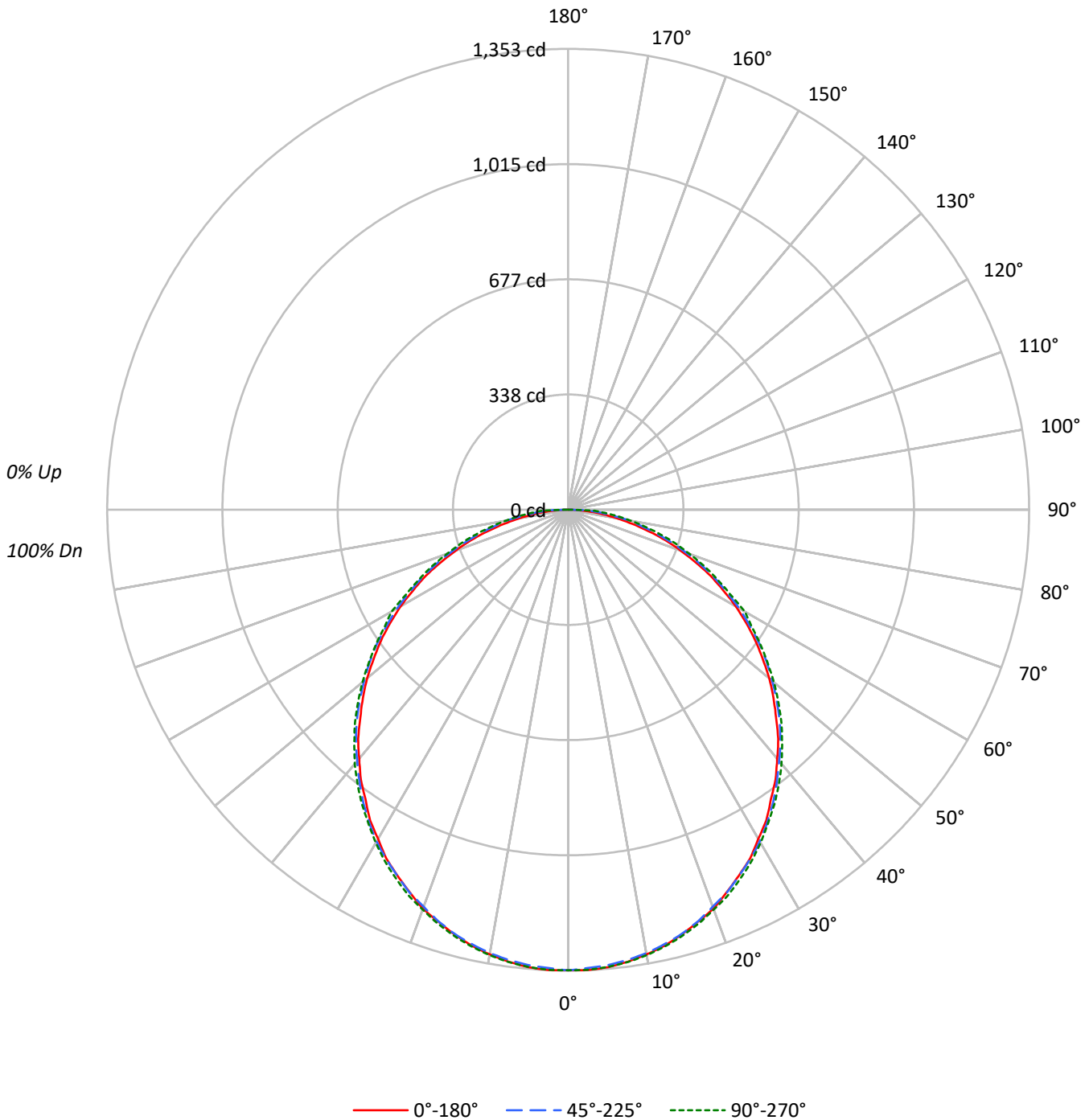
Lumens per Lamp: N/A
Luminaire Lumens: 3829.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V):
Input Current (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	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					100			
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3970	3970	3970
5°	3964	3922	3933
10°	3935	3875	3884
15°	3896	3821	3825
20°	3860	3746	3755
25°	3795	3680	3685
30°	3728	3615	3603
35°	3654	3524	3514
40°	3582	3419	3421
45°	3494	3327	3312
50°	3417	3207	3187
55°	3317	3086	3049
60°	3196	2924	2955
65°	3045	2738	2713
70°	2818	2498	2496
75°	2540	2231	2253
80°	2177	1982	1948
85°	1726	1468	1622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.3
10°-20°	364.3	9.5
20°-30°	548.2	14.3
30°-40°	655.9	17.1
40°-50°	675.9	17.7
50°-60°	609.4	15.9
60°-70°	468.0	12.2
70°-80°	281.8	7.4
80°-90°	97.7	2.6
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°	1040.4	27.2
0°-40°	1696.2	44.3
0°-60°	2981.5	77.9
0°-90°	3829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1348	1347	1342	1347	1347	128
15°	1291	1292	1289	1295	1295	364
25°	1185	1186	1186	1194	1196	546
35°	1038	1048	1048	1055	1056	650
45°	863	870	877	884	885	667
55°	671	677	684	689	689	599
65°	462	463	474	480	482	455
75°	245	252	266	276	280	260
85°	66	76	91	103	108	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1352.3	1352.3	1352.3	1352.3	1352.3
2.5°	1353.0	1352.3	1346.7	1350.9	1352.3
5°	1348.1	1346.7	1341.9	1346.7	1347.4
7.5°	1338.4	1337.7	1333.6	1338.4	1339.8
10°	1325.9	1325.9	1321.8	1326.6	1328.0
12.5°	1310.7	1310.0	1306.5	1312.1	1313.5
15°	1290.6	1292.0	1289.2	1294.7	1295.4
17.5°	1268.4	1269.1	1267.0	1271.8	1273.9
20°	1246.9	1243.4	1240.6	1249.0	1249.7
22.5°	1215.7	1217.1	1216.4	1224.0	1225.4
25°	1185.2	1185.9	1186.5	1193.5	1195.6
27.5°	1155.3	1154.6	1156.7	1162.3	1164.4
30°	1115.8	1121.4	1124.8	1129.0	1129.7
32.5°	1081.8	1083.9	1088.1	1090.8	1091.5
35°	1037.5	1047.9	1048.5	1054.8	1055.5
37.5°	999.3	1002.8	1006.2	1013.9	1015.3
40°	954.2	959.1	963.2	970.2	974.3
42.5°	912.6	918.2	922.3	928.6	929.3
45°	862.7	870.3	877.3	884.2	884.9
47.5°	816.9	824.6	830.1	835.6	836.3
50°	770.5	776.7	781.6	788.5	788.5
52.5°	719.1	726.8	734.4	737.2	737.2
55°	671.3	676.8	684.5	688.6	688.6
57.5°	619.3	622.1	630.4	638.0	638.0
60°	568.0	571.4	579.8	585.3	598.5
62.5°	513.2	518.7	524.3	542.3	534.7
65°	461.9	463.2	474.3	479.9	482.0
67.5°	405.0	409.8	420.9	427.2	431.3
70°	350.9	357.1	366.9	374.5	377.9
72.5°	299.6	302.4	314.8	325.2	330.1
75°	244.8	251.7	266.3	276.0	279.5
77.5°	192.8	203.9	217.8	251.7	232.3
80°	147.0	155.3	180.3	181.7	186.5
82.5°	102.6	112.3	129.0	140.1	145.6
85°	65.9	76.3	90.8	103.3	108.2
87.5°	30.5	41.6	60.3	74.2	78.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)