

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-L835-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-L835-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

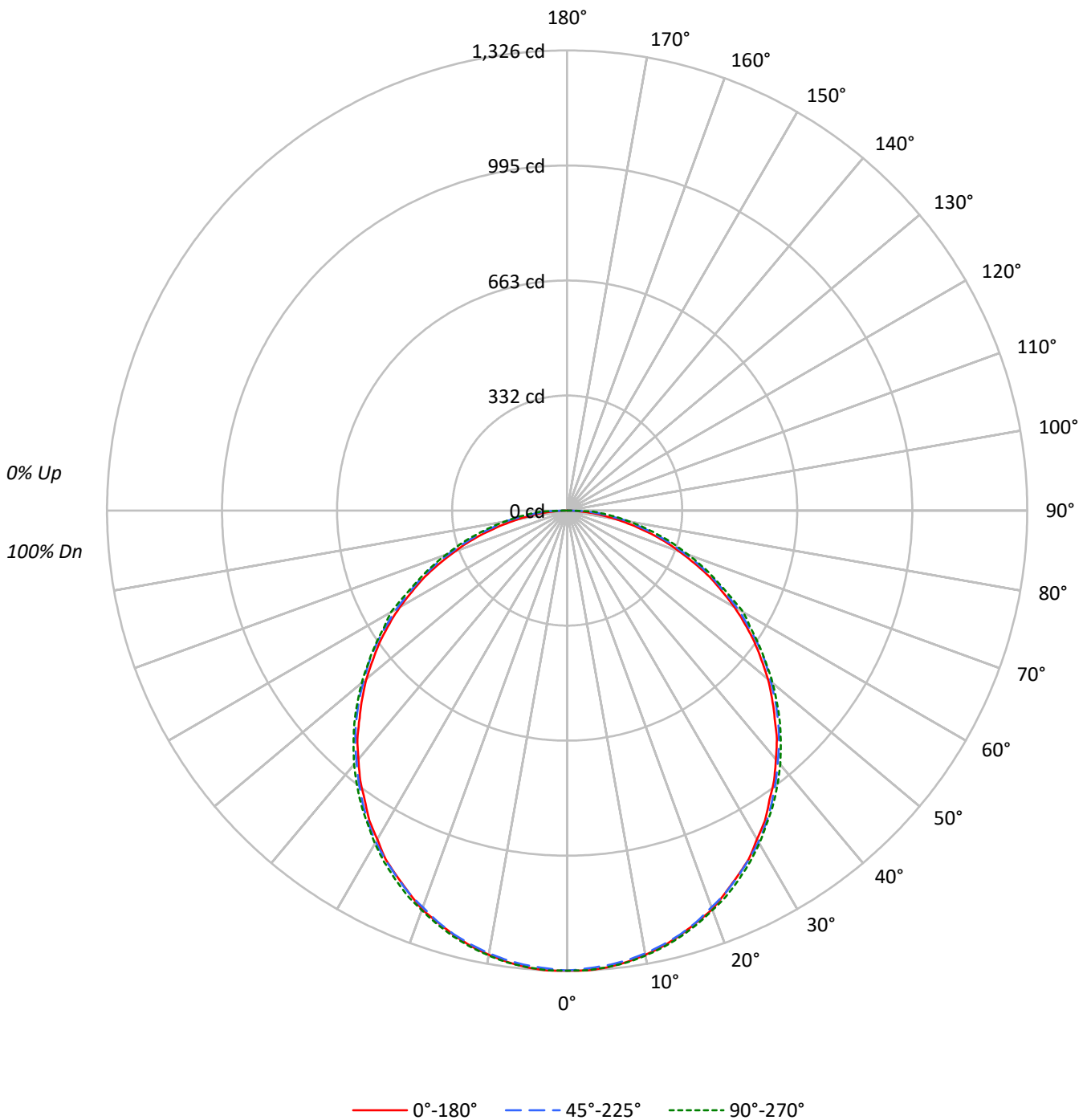
Lumens per Lamp: N/A
Luminaire Lumens: 3754.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	3892	3892	3892
5°	3886	3845	3856
10°	3858	3799	3808
15°	3820	3746	3750
20°	3785	3673	3681
25°	3720	3608	3613
30°	3656	3544	3532
35°	3582	3455	3445
40°	3511	3352	3354
45°	3426	3262	3248
50°	3350	3144	3124
55°	3252	3025	2989
60°	3133	2866	2898
65°	2985	2685	2660
70°	2763	2449	2447
75°	2490	2187	2209
80°	2134	1944	1910
85°	1692	1440	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	3.3
10°-20°	357.2	9.5
20°-30°	537.5	14.3
30°-40°	643.0	17.1
40°-50°	662.7	17.7
50°-60°	597.4	15.9
60°-70°	458.9	12.2
70°-80°	276.3	7.4
80°-90°	95.8	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°	1020.0	27.2
0°-40°	1663.0	44.3
0°-60°	2923.1	77.9
0°-90°	3754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1322	1320	1316	1320	1321	125
15°	1265	1267	1264	1269	1270	357
25°	1162	1163	1163	1170	1172	536
35°	1017	1027	1028	1034	1035	638
45°	846	853	860	867	868	654
55°	658	664	671	675	675	587
65°	453	454	465	470	472	446
75°	240	247	261	271	274	255
85°	65	75	89	101	106	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.8	1325.8	1325.8	1325.8	1325.8
2.5°	1326.5	1325.8	1320.4	1324.4	1325.8
5°	1321.7	1320.4	1315.6	1320.4	1321.0
7.5°	1312.2	1311.5	1307.4	1312.2	1313.6
10°	1300.0	1300.0	1295.9	1300.6	1302.0
12.5°	1285.0	1284.3	1280.9	1286.4	1287.7
15°	1265.3	1266.7	1263.9	1269.4	1270.1
17.5°	1243.5	1244.2	1242.2	1246.9	1249.0
20°	1222.5	1219.1	1216.3	1224.5	1225.2
22.5°	1191.9	1193.2	1192.5	1200.0	1201.4
25°	1161.9	1162.6	1163.3	1170.1	1172.1
27.5°	1132.7	1132.0	1134.1	1139.5	1141.6
30°	1094.0	1099.4	1102.8	1106.9	1107.6
32.5°	1060.6	1062.7	1066.8	1069.5	1070.2
35°	1017.1	1027.3	1028.0	1034.1	1034.8
37.5°	979.7	983.1	986.5	994.0	995.4
40°	935.5	940.3	944.4	951.2	955.3
42.5°	894.7	900.2	904.3	910.4	911.1
45°	845.8	853.3	860.1	866.9	867.6
47.5°	800.9	808.4	813.8	819.3	820.0
50°	755.4	761.5	766.2	773.0	773.0
52.5°	705.1	712.5	720.0	722.7	722.7
55°	658.1	663.6	671.1	675.1	675.1
57.5°	607.2	609.9	618.0	625.5	625.5
60°	556.8	560.2	568.4	573.8	586.8
62.5°	503.1	508.6	514.0	531.7	524.2
65°	452.8	454.2	465.1	470.5	472.5
67.5°	397.1	401.8	412.7	418.8	422.9
70°	344.0	350.1	359.7	367.1	370.5
72.5°	293.7	296.4	308.7	318.9	323.6
75°	240.0	246.8	261.1	270.6	274.0
77.5°	189.0	199.9	213.5	246.8	227.8
80°	144.1	152.3	176.8	178.1	182.9
82.5°	100.6	110.1	126.5	137.3	142.8
85°	64.6	74.8	89.1	101.3	106.1
87.5°	29.9	40.8	59.2	72.7	76.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)