

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-CLWG-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 (P34178)
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-CLWG-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

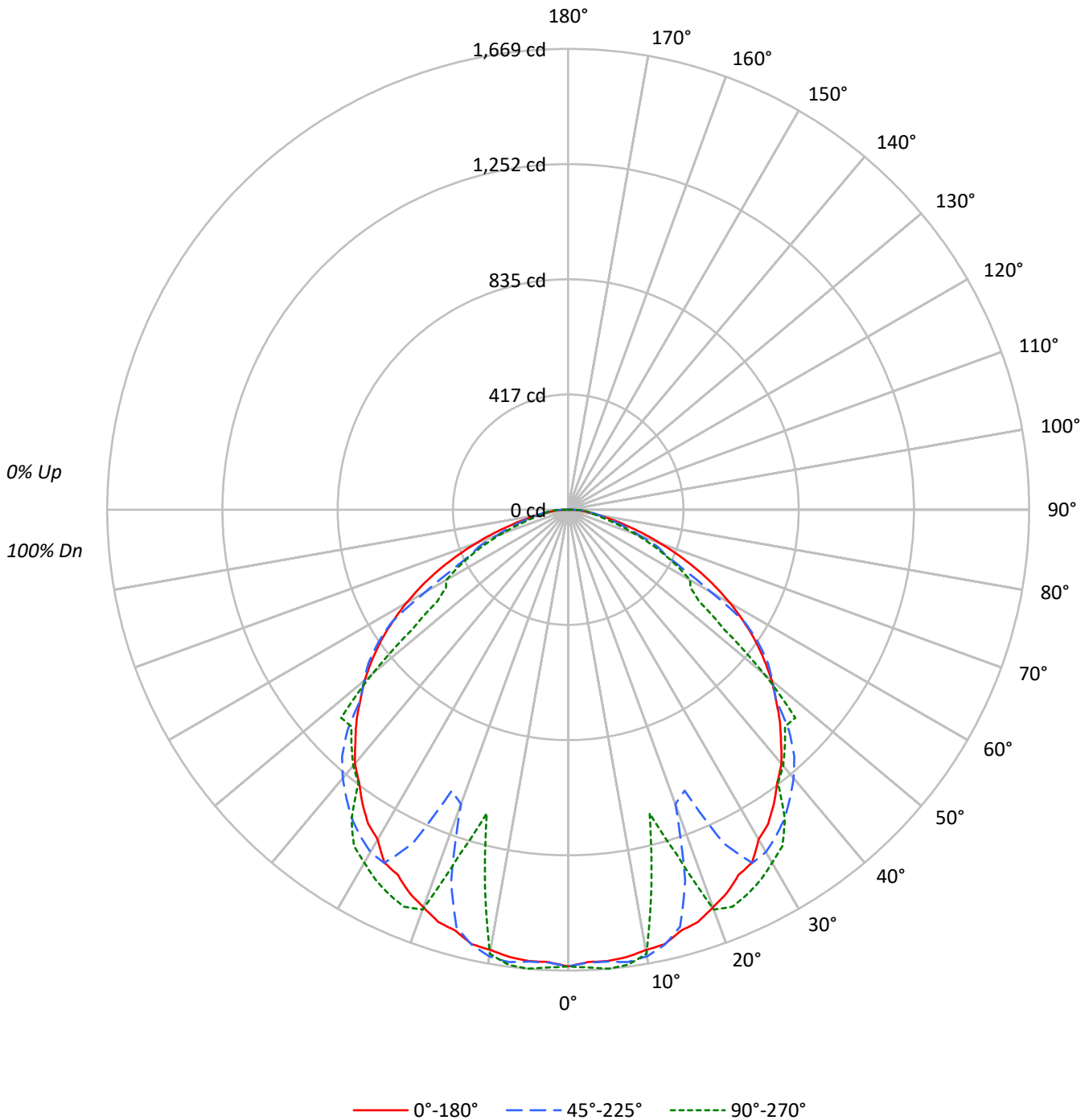
Lumens per Lamp: N/A
Luminaire Lumens: 4283.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4856	4856	4856
5°	4825	4800	4871
10°	4806	4815	4776
15°	4765	4636	3362
20°	4743	3426	4631
25°	4673	4137	4735
30°	4609	4601	4708
35°	4573	4589	4554
40°	4508	4507	4250
45°	4391	4286	4155
50°	4265	3960	3755
55°	4087	3789	2557
60°	3812	3025	2515
65°	3412	2246	2167
70°	2840	1908	1720
75°	2201	1521	1266
80°	1642	1286	966
85°	1407	1077	968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	3.7
10°-20°	416.2	9.7
20°-30°	663.6	15.5
30°-40°	796.5	18.6
40°-50°	847.1	19.8
50°-60°	693.0	16.2
60°-70°	439.4	10.3
70°-80°	203.0	4.7
80°-90°	67.0	1.6
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°	1236.9	28.9
0°-40°	2033.4	47.5
0°-60°	3573.6	83.4
0°-90°	4283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1641	1642	1642	1655	1669	156
15°	1578	1603	1564	1232	1138	447
25°	1460	1464	1334	1523	1536	676
35°	1298	973	1366	1392	1368	811
45°	1084	1089	1130	1102	1110	835
55°	827	870	841	652	577	736
65°	518	526	389	392	385	510
75°	212	201	182	168	157	232
85°	54	58	67	67	65	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1639.7	1642.4	1641.7	1654.0	1659.4
5°	1641.1	1641.7	1642.4	1655.3	1668.9
7.5°	1633.6	1647.9	1652.6	1647.9	1662.1
10°	1619.3	1632.2	1642.4	1628.1	1632.9
12.5°	1611.8	1630.9	1613.9	1543.8	1391.5
15°	1578.5	1603.0	1564.2	1232.3	1138.5
17.5°	1564.9	1581.2	1409.8	1133.0	1310.5
20°	1532.2	1554.7	1134.4	1456.8	1541.1
22.5°	1502.3	1518.6	1101.1	1532.2	1556.0
25°	1459.5	1463.6	1333.7	1522.7	1536.3
27.5°	1441.1	1379.9	1442.5	1503.0	1510.5
30°	1379.2	1253.4	1431.6	1475.8	1476.5
32.5°	1347.9	1091.5	1401.0	1436.3	1443.8
35°	1298.3	973.2	1365.6	1391.5	1367.7
37.5°	1243.9	956.2	1318.7	1305.1	1247.3
40°	1201.0	1043.3	1269.7	1185.4	1210.6
42.5°	1140.5	1096.3	1211.2	1156.2	1160.9
45°	1084.1	1088.8	1130.3	1102.4	1109.9
47.5°	1020.1	1051.4	1019.5	1056.2	1115.3
50°	961.6	995.0	965.0	1025.6	929.0
52.5°	895.0	936.5	911.3	824.9	712.7
55°	827.0	870.5	840.6	651.5	577.4
57.5°	752.9	788.9	757.6	533.9	524.3
60°	677.4	705.9	599.8	486.3	509.4
62.5°	597.8	615.5	473.3	448.2	446.8
65°	517.5	526.4	389.0	391.7	384.9
67.5°	433.9	438.0	350.2	331.9	321.7
70°	353.6	350.9	280.2	270.0	260.5
72.5°	280.2	267.3	227.8	214.2	202.7
75°	212.2	201.3	181.6	168.0	157.1
77.5°	157.8	151.7	142.1	143.5	120.4
80°	110.9	111.5	117.0	99.3	92.5
82.5°	76.9	80.9	83.7	82.3	80.3
85°	53.7	58.5	66.6	66.6	64.6
87.5°	27.2	40.1	53.7	57.1	55.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)