

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: P393629

Luminaire Tested: **24EN-LD2-58-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-58-UNV-L93050-W2A-1-U (4000K)
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5072.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

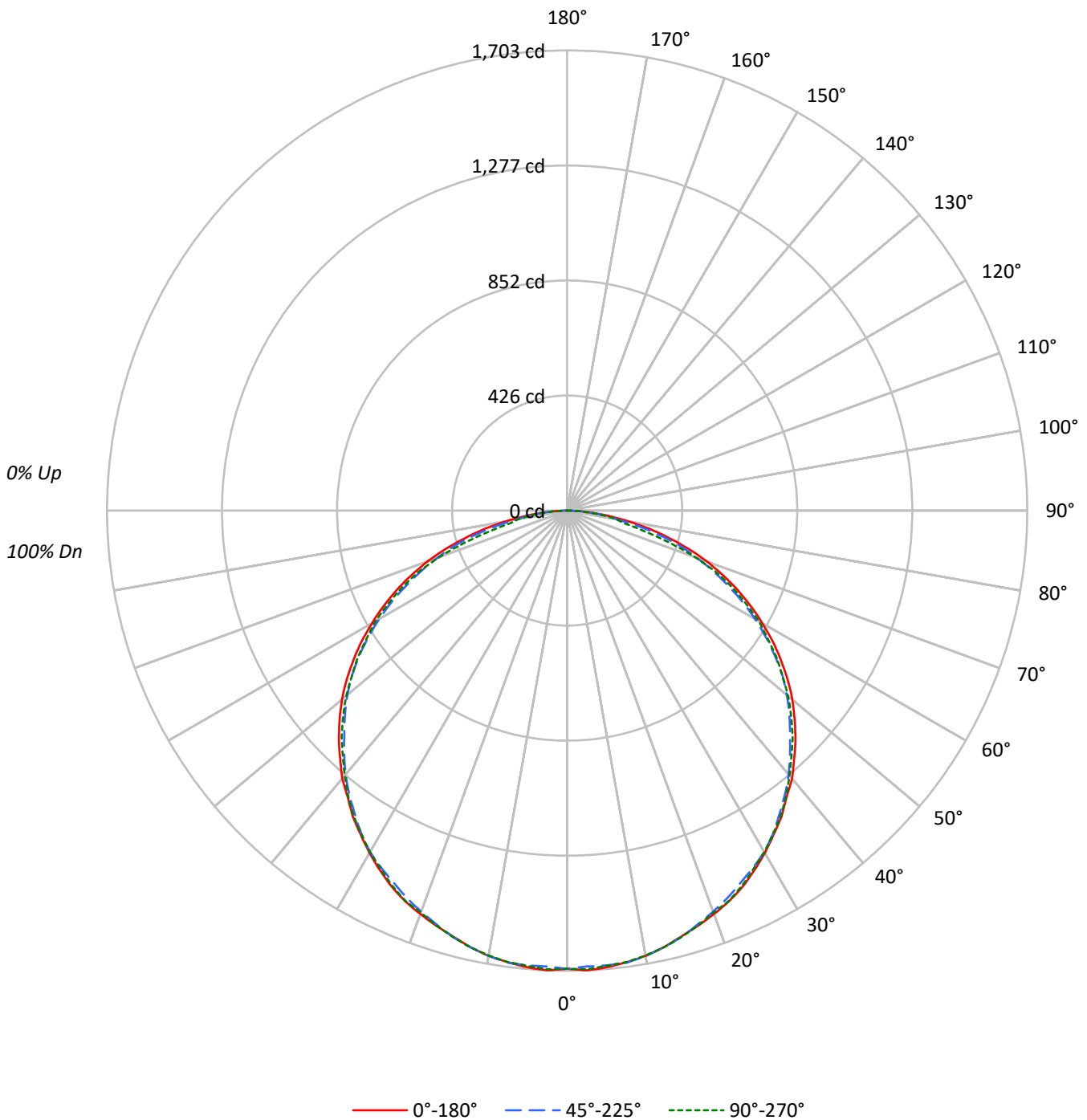
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2281	2281	2281
5°	2291	2282	2284
10°	2287	2287	2284
15°	2273	2275	2277
20°	2275	2261	2268
25°	2281	2255	2275
30°	2273	2266	2266
35°	2271	2251	2264
40°	2274	2240	2248
45°	2274	2219	2246
50°	2278	2222	2234
55°	2266	2205	2217
60°	2245	2162	2205
65°	2216	2091	2150
70°	2158	2010	1979
75°	2021	1857	1544
80°	1787	1469	1435
85°	1376	1335	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	3.2
10°-20°	461.0	9.1
20°-30°	704.1	13.9
30°-40°	859.3	16.9
40°-50°	908.6	17.9
50°-60°	845.1	16.7
60°-70°	662.8	13.1
70°-80°	371.8	7.3
80°-90°	98.8	1.9
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°	1325.7	26.1
0°-40°	2185.0	43.1
0°-60°	3938.7	77.7
0°-90°	5072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1696	1689	1689	1684	1691	161
15°	1632	1634	1634	1629	1634	461
25°	1536	1527	1519	1528	1532	707
35°	1383	1378	1370	1363	1378	865
45°	1195	1183	1166	1174	1180	922
55°	966	955	940	936	945	863
65°	696	678	657	664	675	687
75°	389	375	357	317	297	412
85°	89	86	86	80	79	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1695.5	1695.5	1695.5	1695.5	1695.5
2.5°	1703.3	1692.0	1688.5	1692.0	1699.0
5°	1696.3	1689.4	1689.4	1684.1	1691.1
7.5°	1685.9	1683.2	1687.6	1673.6	1685.0
10°	1673.6	1669.3	1673.6	1658.8	1671.9
12.5°	1654.4	1653.5	1655.3	1647.4	1655.3
15°	1631.7	1633.5	1633.5	1629.1	1634.3
17.5°	1610.7	1611.6	1606.4	1611.6	1609.9
20°	1588.9	1587.2	1579.3	1588.9	1583.7
22.5°	1565.3	1560.1	1551.3	1561.0	1563.6
25°	1536.5	1526.9	1519.0	1527.8	1532.1
27.5°	1500.7	1491.1	1490.2	1490.2	1494.6
30°	1463.1	1456.1	1458.8	1451.8	1458.8
32.5°	1422.1	1419.4	1417.7	1408.1	1418.6
35°	1382.8	1378.4	1370.5	1362.7	1378.4
37.5°	1334.7	1332.1	1324.2	1319.9	1332.1
40°	1294.5	1284.1	1275.3	1272.7	1279.7
42.5°	1243.9	1231.6	1221.2	1225.5	1229.0
45°	1195.0	1182.7	1166.1	1174.0	1180.1
47.5°	1141.7	1128.6	1115.5	1120.7	1124.2
50°	1088.4	1071.8	1061.3	1060.4	1067.4
52.5°	1029.0	1015.0	1004.5	1001.0	1003.7
55°	966.1	954.7	939.9	936.4	945.1
57.5°	902.3	890.1	872.6	870.0	878.7
60°	834.2	822.0	803.6	803.6	819.3
62.5°	766.1	752.1	731.1	735.5	746.8
65°	696.2	677.8	656.9	663.9	675.2
67.5°	622.8	605.3	584.4	590.5	597.5
70°	548.6	529.3	511.0	505.8	503.1
72.5°	470.8	450.7	441.1	415.8	400.1
75°	388.7	374.7	357.3	317.1	297.0
77.5°	312.7	300.5	274.3	226.2	214.9
80°	230.6	229.7	189.6	184.3	185.2
82.5°	156.4	152.9	142.4	132.8	133.6
85°	89.1	85.6	86.5	80.4	78.6
87.5°	32.3	34.9	34.1	34.9	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)