

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: P393623

Luminaire Tested: **24EN-LD2-58-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393623
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-L92765-W2A-1-U (5000K)
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4894.3 lumens
Efficiency: N/A
Efficacy: 118.2 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

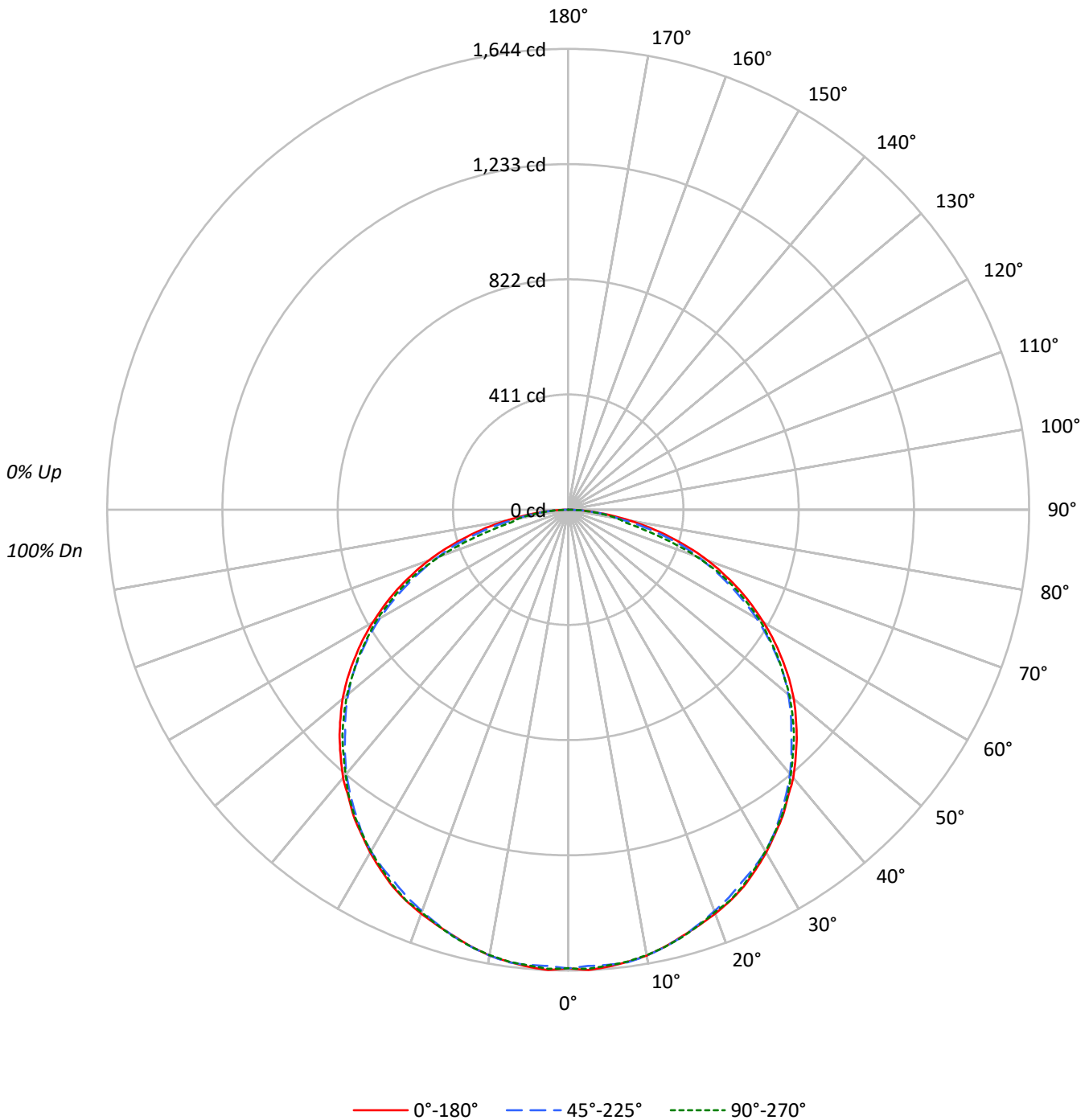
Input Watts (W): 41.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2201	2201	2201
5°	2211	2202	2204
10°	2206	2206	2204
15°	2193	2196	2197
20°	2195	2182	2188
25°	2201	2176	2195
30°	2194	2187	2187
35°	2192	2172	2185
40°	2194	2161	2169
45°	2194	2141	2167
50°	2198	2144	2156
55°	2187	2128	2139
60°	2166	2087	2127
65°	2139	2018	2074
70°	2082	1940	1910
75°	1950	1792	1490
80°	1724	1417	1385
85°	1328	1288	1172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	3.2
10°-20°	444.8	9.1
20°-30°	679.4	13.9
30°-40°	829.2	16.9
40°-50°	876.8	17.9
50°-60°	815.5	16.7
60°-70°	639.6	13.1
70°-80°	358.7	7.3
80°-90°	95.3	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°	1279.2	26.1
0°-40°	2108.4	43.1
0°-60°	3800.7	77.7
0°-90°	4894.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4894.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1637	1630	1630	1625	1632	156
15°	1574	1576	1576	1572	1577	445
25°	1483	1473	1466	1474	1478	683
35°	1334	1330	1322	1315	1330	834
45°	1153	1141	1125	1133	1139	889
55°	932	921	907	904	912	833
65°	672	654	634	641	652	663
75°	375	362	345	306	287	397
85°	86	83	83	78	76	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1636.1	1636.1	1636.1	1636.1	1636.1
2.5°	1643.7	1632.7	1629.3	1632.7	1639.4
5°	1636.9	1630.2	1630.2	1625.1	1631.9
7.5°	1626.8	1624.3	1628.5	1615.0	1626.0
10°	1615.0	1610.8	1615.0	1600.7	1613.3
12.5°	1596.5	1595.6	1597.3	1589.7	1597.3
15°	1574.5	1576.2	1576.2	1572.0	1577.1
17.5°	1554.3	1555.1	1550.1	1555.1	1553.5
20°	1533.2	1531.5	1524.0	1533.2	1528.2
22.5°	1510.5	1505.4	1497.0	1506.3	1508.8
25°	1482.7	1473.4	1465.8	1474.2	1478.4
27.5°	1448.1	1438.8	1438.0	1438.0	1442.2
30°	1411.9	1405.1	1407.6	1400.9	1407.6
32.5°	1372.2	1369.7	1368.0	1358.8	1368.9
35°	1334.3	1330.1	1322.5	1314.9	1330.1
37.5°	1288.0	1285.4	1277.8	1273.6	1285.4
40°	1249.2	1239.1	1230.6	1228.1	1234.8
42.5°	1200.3	1188.5	1178.4	1182.6	1186.0
45°	1153.1	1141.3	1125.3	1132.9	1138.8
47.5°	1101.7	1089.0	1076.4	1081.4	1084.8
50°	1050.3	1034.2	1024.1	1023.3	1030.0
52.5°	992.9	979.4	969.3	966.0	968.5
55°	932.2	921.3	907.0	903.6	912.0
57.5°	870.7	858.9	842.1	839.5	848.0
60°	805.0	793.2	775.5	775.5	790.6
62.5°	739.2	725.7	705.5	709.7	720.7
65°	671.8	654.1	633.9	640.6	651.6
67.5°	601.0	584.1	563.9	569.8	576.5
70°	529.3	510.8	493.1	488.0	485.5
72.5°	454.3	434.9	425.7	401.2	386.0
75°	375.1	361.6	344.7	306.0	286.6
77.5°	301.8	290.0	264.7	218.3	207.4
80°	222.5	221.7	182.9	177.9	178.7
82.5°	150.9	147.5	137.4	128.1	129.0
85°	86.0	82.6	83.4	77.5	75.9
87.5°	31.2	33.7	32.9	33.7	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)