

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: P393618

Luminaire Tested: **24EN-LD2-58-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393618
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 (2700K)
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: 4357.8 lumens
Efficiency: N/A
Efficacy: 106.0 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

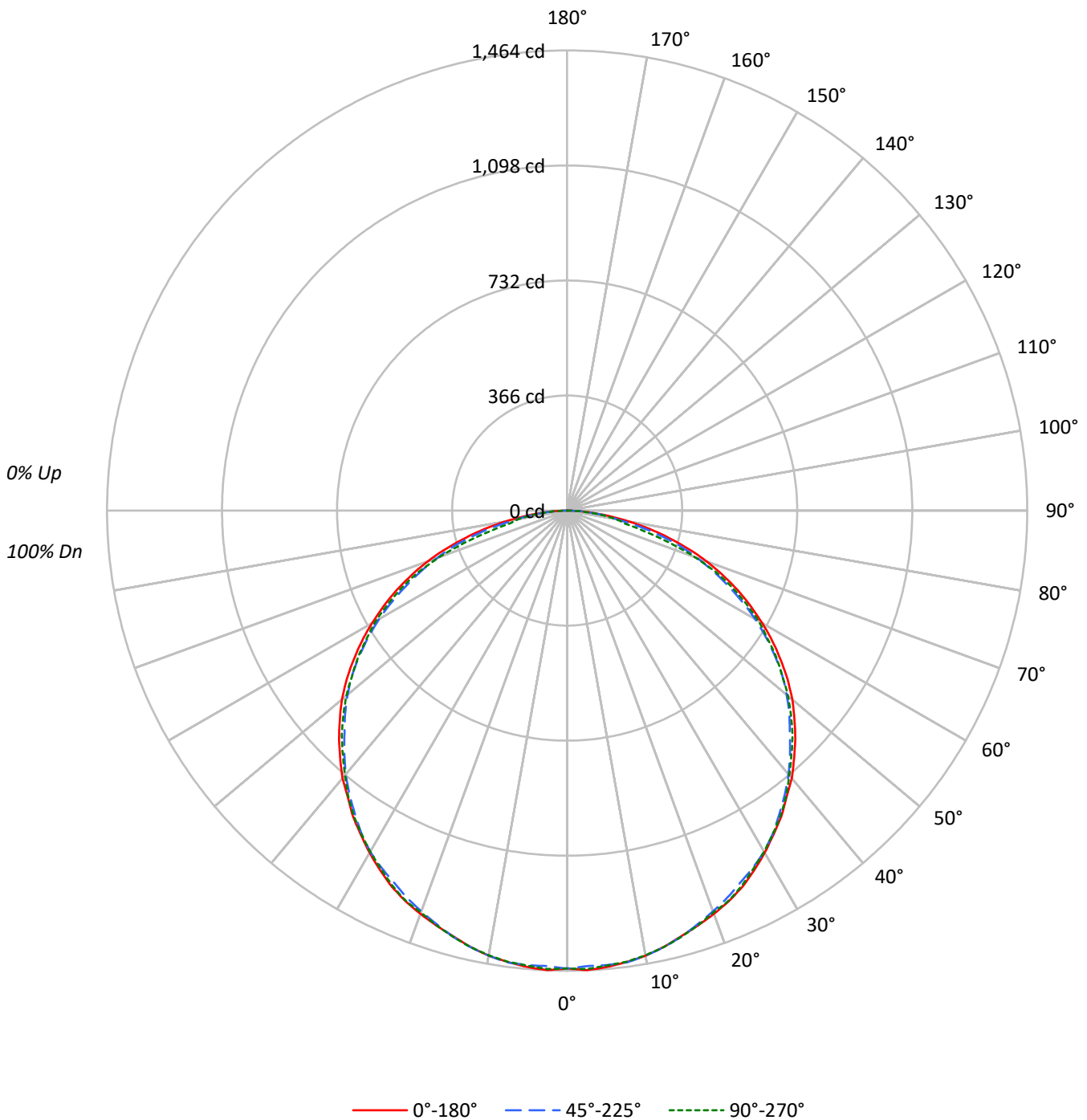
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1960	1960	1960
5°	1969	1960	1962
10°	1965	1965	1963
15°	1953	1955	1956
20°	1955	1943	1948
25°	1960	1938	1954
30°	1953	1947	1947
35°	1951	1934	1945
40°	1953	1925	1931
45°	1954	1906	1929
50°	1957	1909	1920
55°	1947	1894	1905
60°	1929	1858	1894
65°	1904	1797	1847
70°	1854	1727	1701
75°	1736	1596	1327
80°	1535	1262	1233
85°	1183	1147	1042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	3.2
10°-20°	396.1	9.1
20°-30°	604.9	13.9
30°-40°	738.3	16.9
40°-50°	780.7	17.9
50°-60°	726.1	16.7
60°-70°	569.5	13.1
70°-80°	319.4	7.3
80°-90°	84.8	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°	1139.0	26.1
0°-40°	1877.3	43.1
0°-60°	3384.1	77.7
0°-90°	4357.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4357.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1458	1452	1452	1447	1453	138
15°	1402	1403	1403	1400	1404	396
25°	1320	1312	1305	1313	1316	608
35°	1188	1184	1178	1171	1184	743
45°	1027	1016	1002	1009	1014	792
55°	830	820	808	804	812	742
65°	598	582	564	570	580	590
75°	334	322	307	272	255	354
85°	77	74	74	69	68	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1463.5	1453.7	1450.7	1453.7	1459.7
5°	1457.5	1451.5	1451.5	1447.0	1453.0
7.5°	1448.5	1446.2	1450.0	1438.0	1447.7
10°	1438.0	1434.2	1438.0	1425.2	1436.5
12.5°	1421.5	1420.7	1422.2	1415.5	1422.2
15°	1401.9	1403.4	1403.4	1399.7	1404.2
17.5°	1383.9	1384.7	1380.2	1384.7	1383.2
20°	1365.2	1363.7	1356.9	1365.2	1360.7
22.5°	1344.9	1340.4	1332.9	1341.2	1343.4
25°	1320.1	1311.9	1305.1	1312.6	1316.4
27.5°	1289.4	1281.1	1280.4	1280.4	1284.1
30°	1257.1	1251.1	1253.3	1247.3	1253.3
32.5°	1221.8	1219.6	1218.1	1209.8	1218.8
35°	1188.0	1184.3	1177.5	1170.8	1184.3
37.5°	1146.8	1144.5	1137.8	1134.0	1144.5
40°	1112.2	1103.2	1095.7	1093.5	1099.5
42.5°	1068.7	1058.2	1049.2	1053.0	1056.0
45°	1026.7	1016.2	1001.9	1008.7	1013.9
47.5°	980.9	969.7	958.4	962.9	965.9
50°	935.1	920.9	911.9	911.1	917.1
52.5°	884.1	872.1	863.1	860.1	862.3
55°	830.1	820.3	807.5	804.5	812.0
57.5°	775.3	764.8	749.8	747.5	755.0
60°	716.7	706.2	690.5	690.5	704.0
62.5°	658.2	646.2	628.2	631.9	641.7
65°	598.2	582.4	564.4	570.4	580.1
67.5°	535.1	520.1	502.1	507.3	513.3
70°	471.3	454.8	439.0	434.5	432.3
72.5°	404.5	387.3	379.0	357.2	343.7
75°	334.0	322.0	307.0	272.4	255.2
77.5°	268.7	258.2	235.7	194.4	184.6
80°	198.1	197.4	162.9	158.4	159.1
82.5°	134.3	131.3	122.3	114.1	114.8
85°	76.6	73.5	74.3	69.0	67.5
87.5°	27.8	30.0	29.3	30.0	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)