

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: P393588

Luminaire Tested: **24EN-LD2-54-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-36)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-54-UNV-L92765-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 5400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4317.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

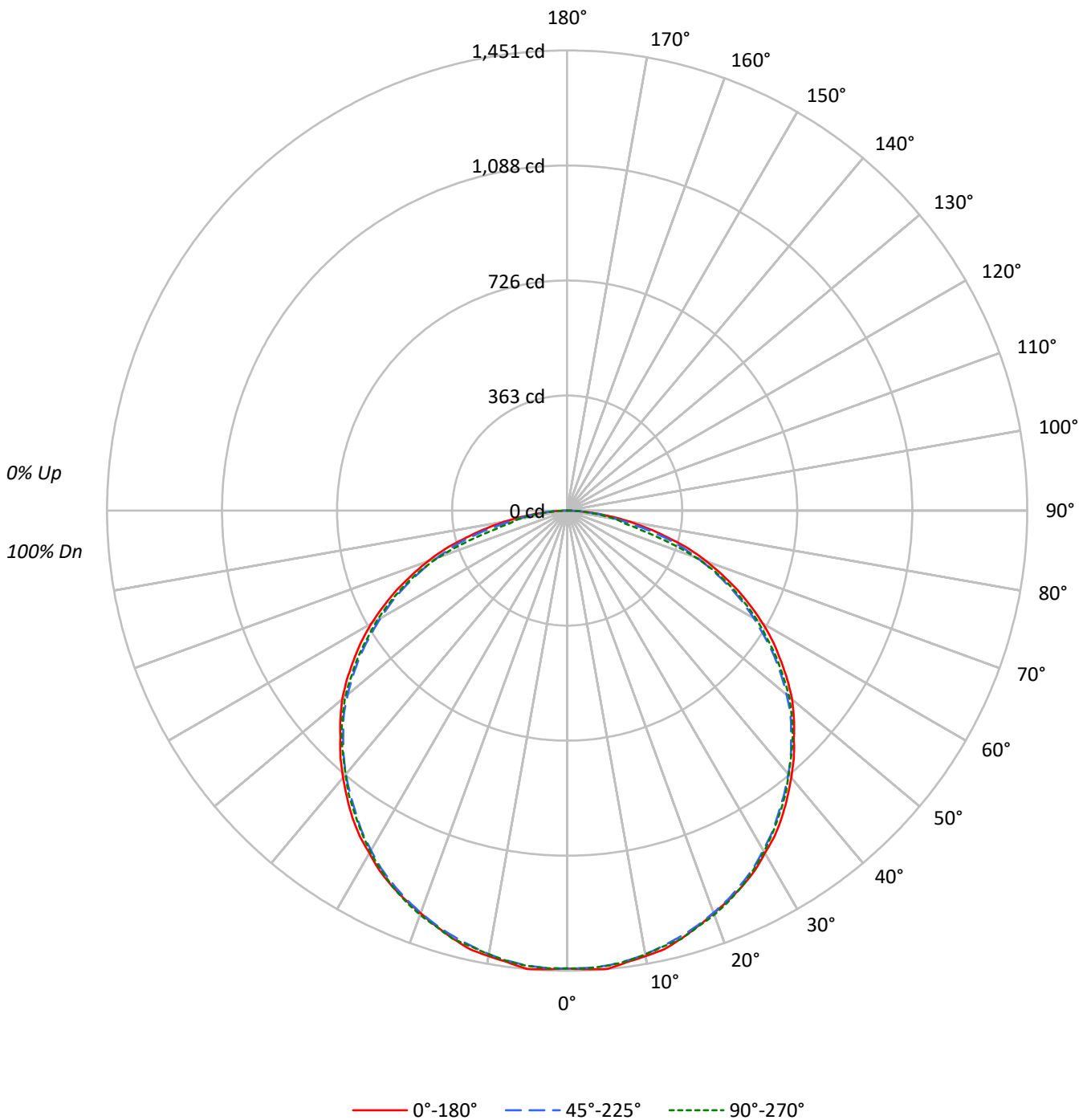
Input Watts (W): 38.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1942	1942	1942
5°	1960	1946	1947
10°	1949	1941	1941
15°	1945	1935	1946
20°	1935	1932	1942
25°	1940	1929	1939
30°	1938	1922	1929
35°	1940	1910	1917
40°	1931	1906	1909
45°	1924	1900	1914
50°	1938	1891	1913
55°	1927	1867	1887
60°	1918	1831	1861
65°	1889	1788	1820
70°	1835	1723	1701
75°	1713	1589	1289
80°	1534	1252	1209
85°	1235	1113	1014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	3.2
10°-20°	392.9	9.1
20°-30°	599.5	13.9
30°-40°	731.6	16.9
40°-50°	774.1	17.9
50°-60°	718.2	16.6
60°-70°	563.6	13.1
70°-80°	316.4	7.3
80°-90°	83.9	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°	1129.3	26.2
0°-40°	1860.8	43.1
0°-60°	3353.2	77.7
0°-90°	4317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1451	1441	1441	1437	1441	137
15°	1396	1394	1389	1388	1397	394
25°	1307	1297	1300	1296	1306	602
35°	1181	1173	1163	1166	1167	738
45°	1011	1007	999	995	1006	783
55°	821	809	796	798	805	735
65°	593	577	562	562	572	585
75°	330	319	306	270	248	350
85°	80	73	72	66	66	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.7	1443.7	1443.7	1443.7	1443.7
2.5°	1447.7	1442.9	1443.7	1442.1	1444.5
5°	1450.9	1441.4	1440.6	1437.4	1441.4
7.5°	1436.6	1433.4	1431.9	1431.1	1433.4
10°	1426.3	1420.8	1420.8	1421.6	1420.8
12.5°	1416.8	1408.9	1404.9	1407.3	1407.3
15°	1396.2	1393.8	1389.1	1388.3	1397.0
17.5°	1374.0	1375.6	1370.9	1370.1	1374.8
20°	1351.1	1350.3	1349.5	1345.5	1356.6
22.5°	1329.7	1325.7	1326.5	1321.8	1332.9
25°	1306.7	1297.2	1299.6	1295.6	1305.9
27.5°	1280.6	1269.5	1271.1	1271.1	1275.0
30°	1247.3	1237.8	1237.0	1241.8	1241.8
32.5°	1217.2	1207.7	1203.0	1203.8	1205.4
35°	1180.8	1172.9	1162.6	1165.8	1167.3
37.5°	1140.4	1136.5	1124.6	1124.6	1130.1
40°	1099.2	1093.7	1085.0	1082.6	1086.6
42.5°	1058.0	1052.5	1043.8	1039.8	1046.2
45°	1011.3	1007.4	998.7	994.7	1005.8
47.5°	970.1	961.4	955.9	952.7	960.6
50°	925.8	913.1	903.6	905.2	913.9
52.5°	875.1	863.2	849.8	852.9	857.7
55°	821.3	808.6	795.9	798.3	804.6
57.5°	769.8	757.1	737.3	741.3	746.0
60°	712.8	695.3	680.3	682.7	691.4
62.5°	652.6	638.3	623.3	624.9	632.8
65°	593.2	577.3	561.5	561.5	571.8
67.5°	528.2	517.1	499.7	499.7	506.1
70°	466.5	452.2	437.9	428.4	432.4
72.5°	403.9	386.5	375.4	351.6	341.3
75°	329.5	319.2	305.7	270.1	247.9
77.5°	262.1	256.6	230.5	193.2	183.7
80°	198.0	194.0	161.6	156.0	156.0
82.5°	135.4	131.5	122.0	112.5	110.9
85°	80.0	72.9	72.1	66.5	65.7
87.5°	26.1	30.1	28.5	29.3	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)