

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: P393716

Luminaire Tested: **24EN-LD2-74-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-40)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-74-UNV-L92765-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5837.4 lumens
Efficiency: N/A
Efficacy: 106.3 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

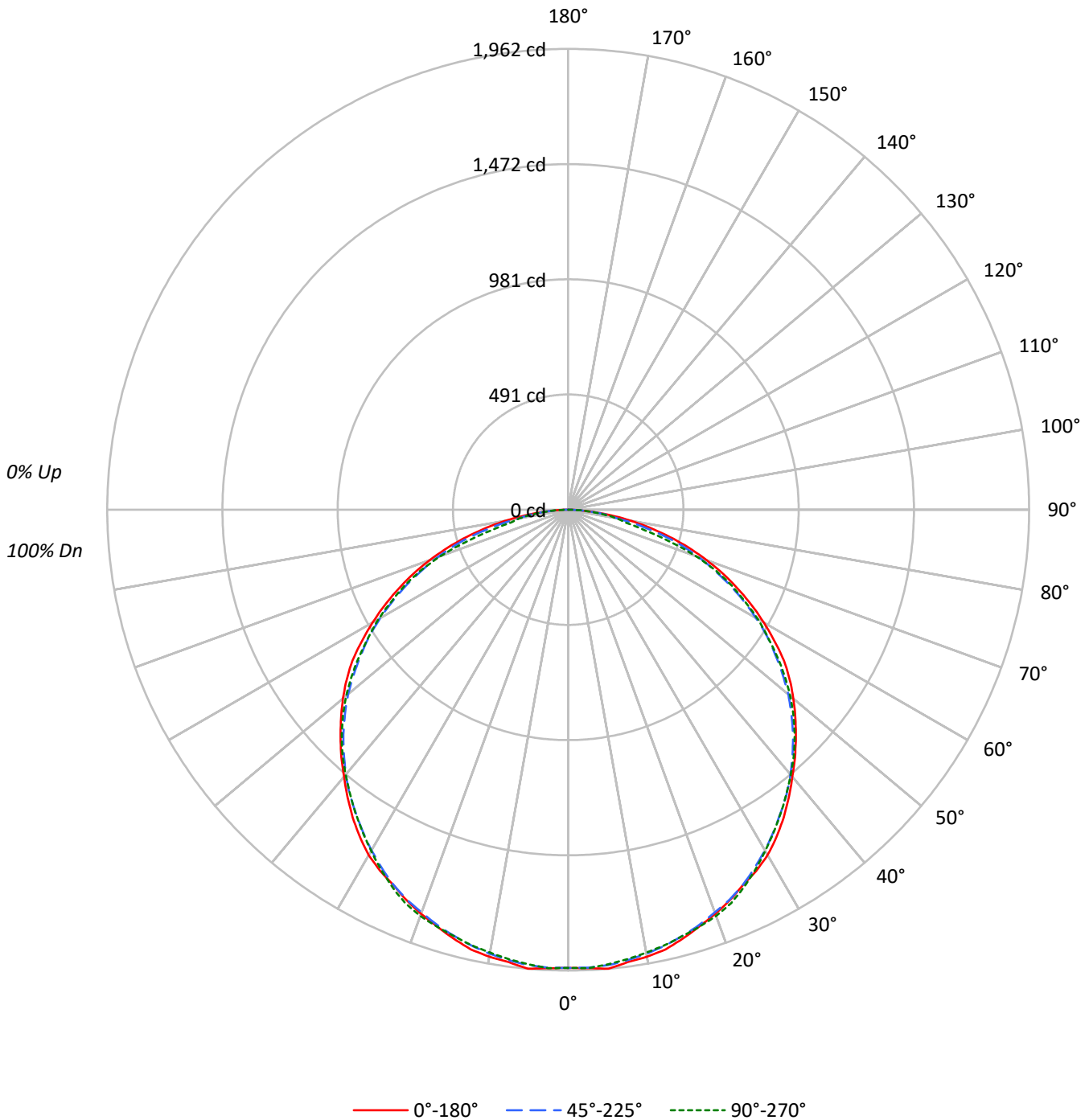
Input Watts (W): 54.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	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°	2625	2625	2625
5°	2650	2629	2624
10°	2640	2623	2616
15°	2632	2617	2618
20°	2622	2613	2635
25°	2616	2615	2631
30°	2638	2601	2606
35°	2626	2589	2591
40°	2607	2586	2587
45°	2607	2575	2594
50°	2619	2560	2581
55°	2631	2525	2543
60°	2587	2485	2510
65°	2539	2413	2453
70°	2461	2327	2274
75°	2326	2137	1754
80°	2074	1650	1620
85°	1626	1528	1406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	3.2
10°-20°	531.2	9.1
20°-30°	812.0	13.9
30°-40°	990.0	17.0
40°-50°	1047.8	17.9
50°-60°	971.1	16.6
60°-70°	761.8	13.1
70°-80°	425.0	7.3
80°-90°	113.7	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°	1528.1	26.2
0°-40°	2518.1	43.1
0°-60°	4536.9	77.7
0°-90°	5837.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5837.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1962	1944	1947	1943	1943	186
15°	1890	1882	1878	1878	1879	533
25°	1762	1764	1761	1754	1772	815
35°	1599	1580	1576	1582	1578	1000
45°	1370	1368	1353	1346	1363	1058
55°	1121	1091	1076	1079	1084	997
65°	798	783	758	766	771	788
75°	448	429	411	360	337	471
85°	105	100	99	93	91	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.6	1950.6	1950.6	1950.6	1950.6
2.5°	1953.7	1949.0	1951.4	1944.2	1953.7
5°	1961.7	1943.5	1946.6	1942.7	1942.7
7.5°	1942.7	1934.7	1934.7	1935.5	1930.0
10°	1932.4	1922.1	1919.7	1922.1	1914.9
12.5°	1917.3	1902.3	1900.7	1902.3	1899.1
15°	1889.6	1882.5	1878.5	1877.7	1879.3
17.5°	1859.5	1857.9	1854.0	1850.8	1861.1
20°	1831.0	1832.6	1824.7	1822.3	1840.5
22.5°	1799.3	1799.3	1796.2	1788.2	1812.8
25°	1762.1	1763.7	1761.3	1754.2	1772.4
27.5°	1733.6	1721.7	1719.3	1717.0	1726.5
30°	1697.9	1676.6	1674.2	1675.0	1677.4
32.5°	1651.2	1629.8	1625.9	1630.6	1627.5
35°	1599.0	1579.9	1576.0	1581.5	1577.6
37.5°	1542.7	1531.6	1526.9	1526.9	1525.3
40°	1484.1	1479.4	1472.2	1469.9	1473.0
42.5°	1428.7	1427.9	1412.8	1409.7	1421.6
45°	1370.1	1368.5	1353.4	1345.5	1363.0
47.5°	1311.5	1305.1	1288.5	1280.6	1300.4
50°	1251.3	1236.2	1222.8	1220.4	1233.1
52.5°	1188.7	1165.0	1149.1	1147.5	1160.2
55°	1121.4	1091.3	1076.3	1078.6	1084.2
57.5°	1041.4	1018.5	1003.4	1002.6	1005.8
60°	961.4	941.6	923.4	925.8	932.9
62.5°	879.9	864.0	841.8	849.0	849.0
65°	797.5	783.2	757.9	765.8	770.6
67.5°	713.6	697.7	673.2	677.1	681.9
70°	625.6	608.2	591.6	576.5	578.1
72.5°	536.9	517.9	506.9	468.8	457.7
75°	447.5	429.2	411.0	359.5	337.4
77.5°	356.4	346.1	311.2	255.8	247.9
80°	267.7	262.9	213.0	209.9	209.1
82.5°	185.3	177.4	162.4	152.8	150.5
85°	105.3	99.8	99.0	92.7	91.1
87.5°	37.2	39.6	40.4	40.4	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)