

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: P393687

Luminaire Tested: **24EN-LD2-70-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-70-UNV-L92765-W2A-1-U (5000K)
Description: 2X4 ENCOUNTER, 7000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5910.8 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

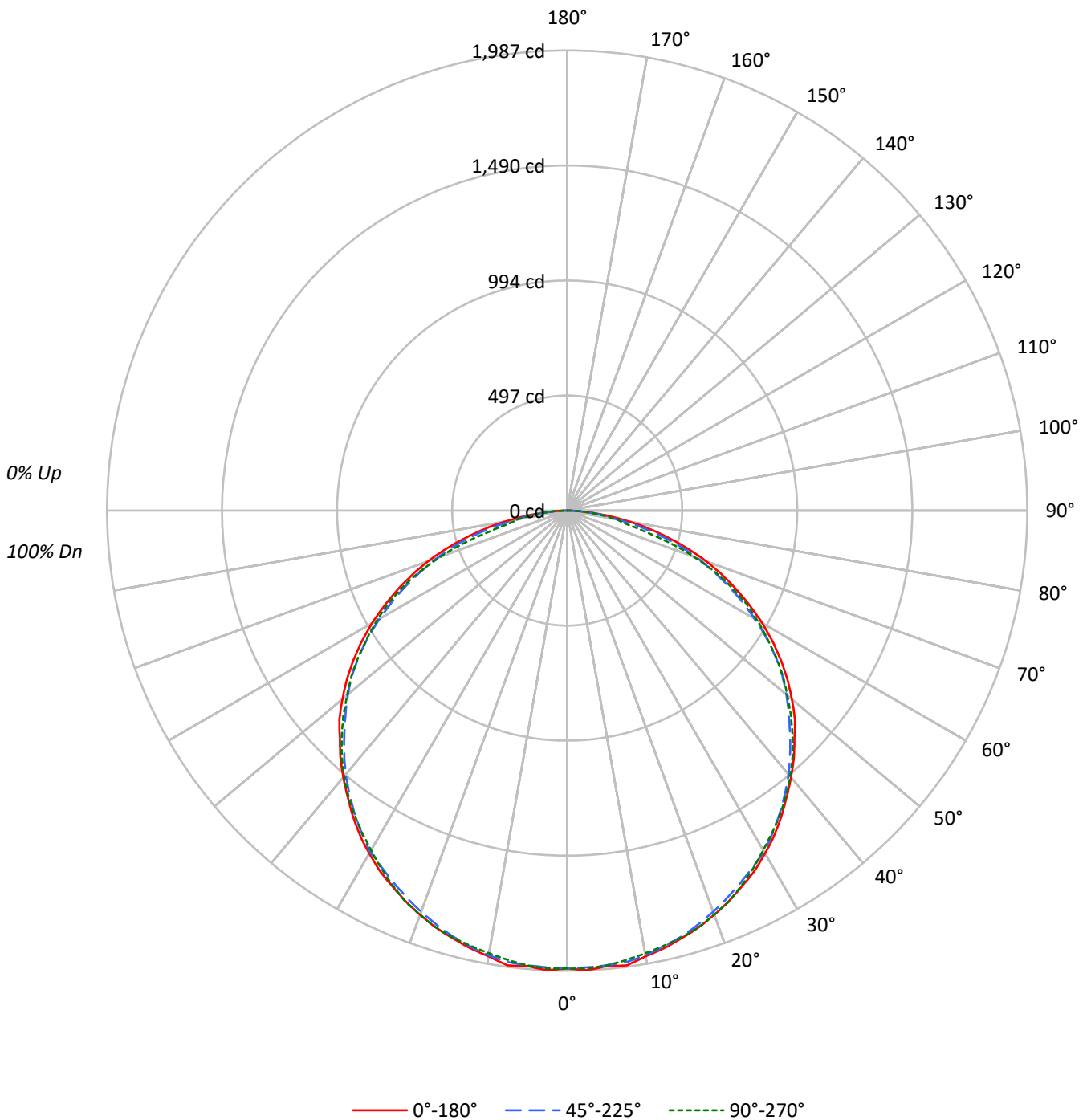
Input Watts (W): 51.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2661	2661	2661
5°	2666	2662	2663
10°	2671	2664	2652
15°	2663	2652	2658
20°	2660	2641	2659
25°	2655	2632	2649
30°	2656	2644	2631
35°	2649	2626	2632
40°	2641	2612	2631
45°	2642	2589	2618
50°	2652	2587	2595
55°	2644	2575	2580
60°	2618	2516	2549
65°	2568	2442	2493
70°	2510	2344	2291
75°	2358	2169	1784
80°	2090	1691	1653
85°	1666	1522	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	3.2
10°-20°	537.7	9.1
20°-30°	821.0	13.9
30°-40°	1002.0	17.0
40°-50°	1059.3	17.9
50°-60°	985.1	16.7
60°-70°	770.9	13.0
70°-80°	432.6	7.3
80°-90°	114.7	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°	1546.2	26.2
0°-40°	2548.2	43.1
0°-60°	4592.6	77.7
0°-90°	5910.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5910.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1977	1977	1977	1977	1977	
5°	1974	1972	1971	1969	1972	188
15°	1912	1906	1904	1896	1908	540
25°	1789	1779	1773	1783	1784	825
35°	1612	1606	1599	1593	1602	1009
45°	1388	1377	1360	1369	1376	1073
55°	1127	1112	1098	1092	1100	1006
65°	807	789	767	771	783	798
75°	454	437	417	368	343	479
85°	108	100	99	92	91	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1977.4	1977.4	1977.4	1977.4	1977.4
2.5°	1986.7	1974.1	1974.9	1979.1	1979.1
5°	1974.1	1971.5	1970.7	1969.0	1971.5
7.5°	1980.8	1964.0	1966.5	1956.4	1957.2
10°	1954.7	1947.9	1949.6	1942.0	1941.2
12.5°	1935.3	1932.8	1928.6	1921.0	1925.2
15°	1911.7	1905.8	1904.1	1895.7	1908.3
17.5°	1887.3	1878.0	1875.5	1870.4	1887.3
20°	1857.7	1849.3	1844.3	1843.4	1856.9
22.5°	1824.9	1816.4	1808.9	1814.8	1826.6
25°	1788.6	1779.4	1772.6	1782.7	1784.4
27.5°	1753.2	1742.3	1735.5	1741.4	1740.6
30°	1709.4	1700.1	1701.8	1695.9	1693.4
32.5°	1663.9	1655.5	1651.2	1645.3	1647.9
35°	1612.5	1605.7	1599.0	1593.1	1602.4
37.5°	1557.7	1553.5	1544.2	1538.3	1552.6
40°	1503.7	1494.5	1486.9	1482.7	1497.8
42.5°	1448.9	1438.8	1425.3	1424.5	1440.5
45°	1388.3	1377.3	1360.4	1368.9	1375.6
47.5°	1334.3	1316.6	1298.1	1306.5	1310.7
50°	1266.9	1252.5	1235.7	1239.1	1239.9
52.5°	1198.6	1186.8	1170.8	1166.6	1174.2
55°	1127.0	1111.8	1097.5	1092.4	1100.0
57.5°	1051.1	1037.6	1019.1	1012.3	1022.4
60°	972.7	955.0	934.8	934.8	947.4
62.5°	890.1	875.8	851.3	854.7	873.2
65°	806.7	789.0	767.0	771.3	783.1
67.5°	723.2	705.5	679.4	685.3	690.3
70°	638.1	616.2	595.9	590.0	582.4
72.5°	546.2	526.0	512.5	480.5	467.8
75°	453.5	436.6	417.2	368.3	343.1
77.5°	362.4	351.5	320.3	263.0	252.9
80°	269.7	264.7	218.3	214.1	213.3
82.5°	183.8	180.4	166.1	154.3	151.7
85°	107.9	100.3	98.6	91.9	91.0
87.5°	37.1	40.5	39.6	40.5	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)