

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: P393662

Luminaire Tested: **24EN-LD2-67-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L93050-W2A-1-U (4500K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5845.6 lumens
Efficiency: N/A
Efficacy: 122.5 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

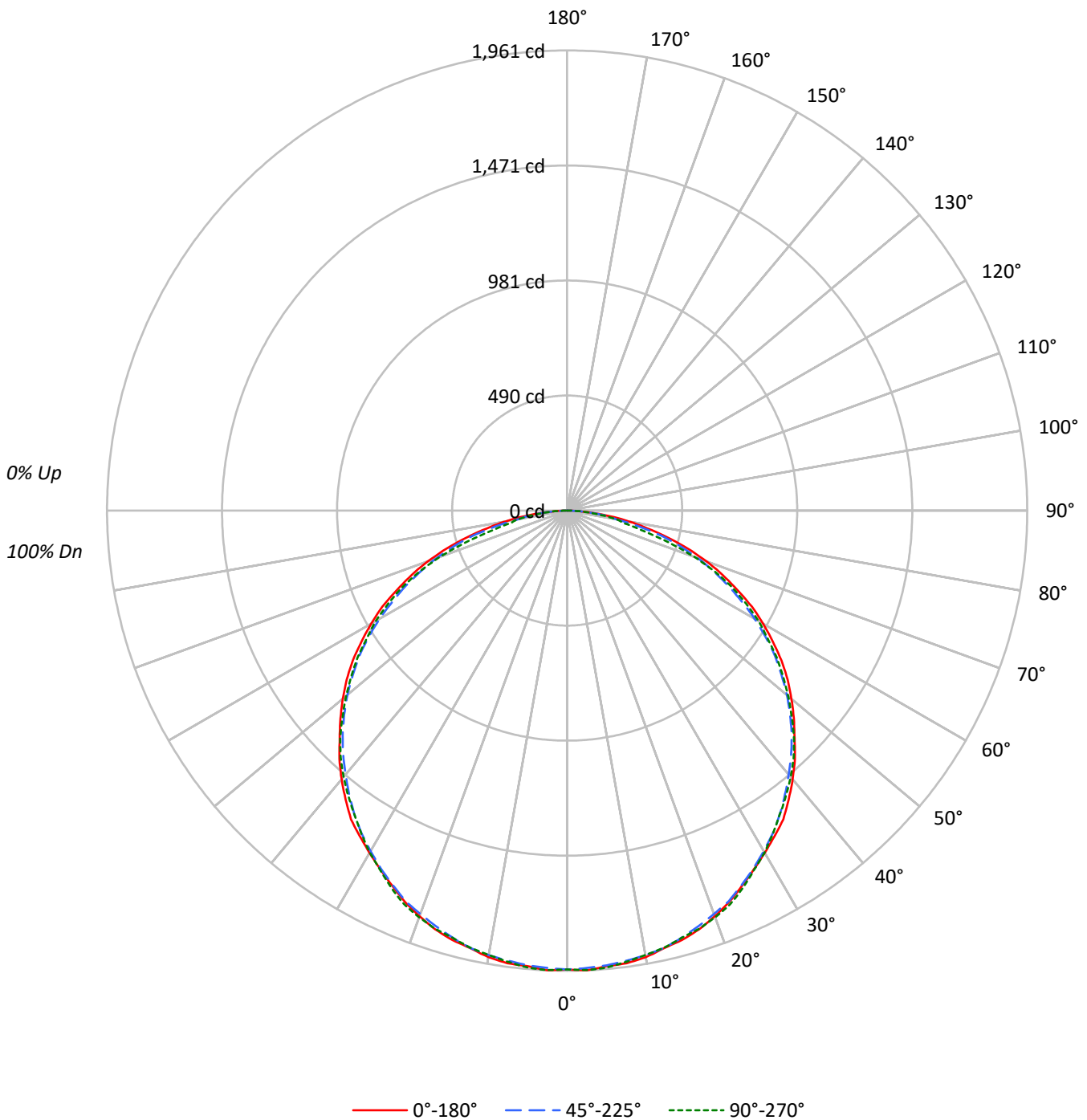
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2631	2631	2631
5°	2632	2627	2640
10°	2641	2629	2627
15°	2638	2625	2626
20°	2634	2619	2642
25°	2619	2612	2633
30°	2617	2603	2614
35°	2638	2596	2596
40°	2627	2580	2603
45°	2608	2575	2602
50°	2612	2559	2573
55°	2616	2538	2556
60°	2594	2484	2538
65°	2544	2413	2474
70°	2480	2328	2269
75°	2305	2164	1748
80°	2082	1654	1647
85°	1667	1518	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	3.2
10°-20°	532.6	9.1
20°-30°	813.4	13.9
30°-40°	991.0	17.0
40°-50°	1049.2	17.9
50°-60°	972.0	16.6
60°-70°	763.2	13.1
70°-80°	425.4	7.3
80°-90°	113.5	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°	1531.1	26.2
0°-40°	2522.1	43.1
0°-60°	4543.4	77.7
0°-90°	5845.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5845.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1948	1952	1945	1942	1955	186
15°	1894	1887	1884	1881	1885	535
25°	1764	1766	1760	1762	1774	814
35°	1606	1587	1580	1574	1580	1001
45°	1371	1368	1353	1355	1367	1060
55°	1115	1097	1082	1076	1090	995
65°	799	782	758	767	777	792
75°	443	428	416	357	336	470
85°	108	99	98	90	90	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1955.5	1955.5	1955.5	1955.5	1955.5
2.5°	1960.8	1952.0	1951.1	1952.9	1959.9
5°	1948.5	1952.0	1945.0	1942.3	1954.6
7.5°	1945.8	1944.1	1934.4	1928.3	1938.8
10°	1932.7	1930.0	1923.9	1914.2	1923.0
12.5°	1909.8	1911.6	1909.0	1898.4	1908.1
15°	1894.0	1887.0	1884.4	1880.9	1885.2
17.5°	1871.2	1857.1	1858.0	1863.3	1868.6
20°	1839.6	1827.3	1829.0	1838.7	1844.9
22.5°	1805.3	1800.1	1800.9	1804.5	1815.9
25°	1764.1	1765.8	1759.7	1762.3	1773.7
27.5°	1723.7	1729.8	1719.3	1716.7	1726.3
30°	1684.2	1686.8	1675.4	1669.2	1682.4
32.5°	1644.6	1638.5	1630.6	1621.8	1632.4
35°	1606.0	1586.7	1580.5	1573.5	1580.5
37.5°	1550.7	1534.9	1525.2	1526.1	1532.3
40°	1495.4	1477.8	1469.0	1476.1	1482.2
42.5°	1436.5	1420.7	1412.8	1418.1	1428.6
45°	1370.7	1368.1	1353.1	1354.9	1367.2
47.5°	1310.1	1306.6	1289.0	1289.0	1297.8
50°	1247.8	1238.1	1222.3	1217.0	1229.3
52.5°	1184.5	1167.8	1151.2	1149.4	1159.9
55°	1115.2	1096.7	1081.8	1075.7	1089.7
57.5°	1039.6	1022.1	1002.8	1002.8	1011.6
60°	964.1	943.1	922.9	923.7	943.1
62.5°	887.7	866.7	838.6	843.8	859.6
65°	799.1	782.4	757.8	767.4	777.1
67.5°	717.4	699.0	673.5	682.3	682.3
70°	630.5	606.8	591.8	582.2	576.9
72.5°	539.1	517.2	506.7	471.5	456.6
75°	443.4	428.5	416.2	357.4	336.3
77.5°	352.1	344.2	310.8	259.9	247.6
80°	268.7	262.5	213.4	211.6	212.5
82.5°	183.5	176.5	163.3	152.8	147.5
85°	108.0	99.2	98.3	90.4	89.6
87.5°	36.0	39.5	41.3	40.4	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)