

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: P393642

Luminaire Tested: **24EN-LD2-67-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393642
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-L83050-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6423.0 lumens
Efficiency: N/A
Efficacy: 134.4 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

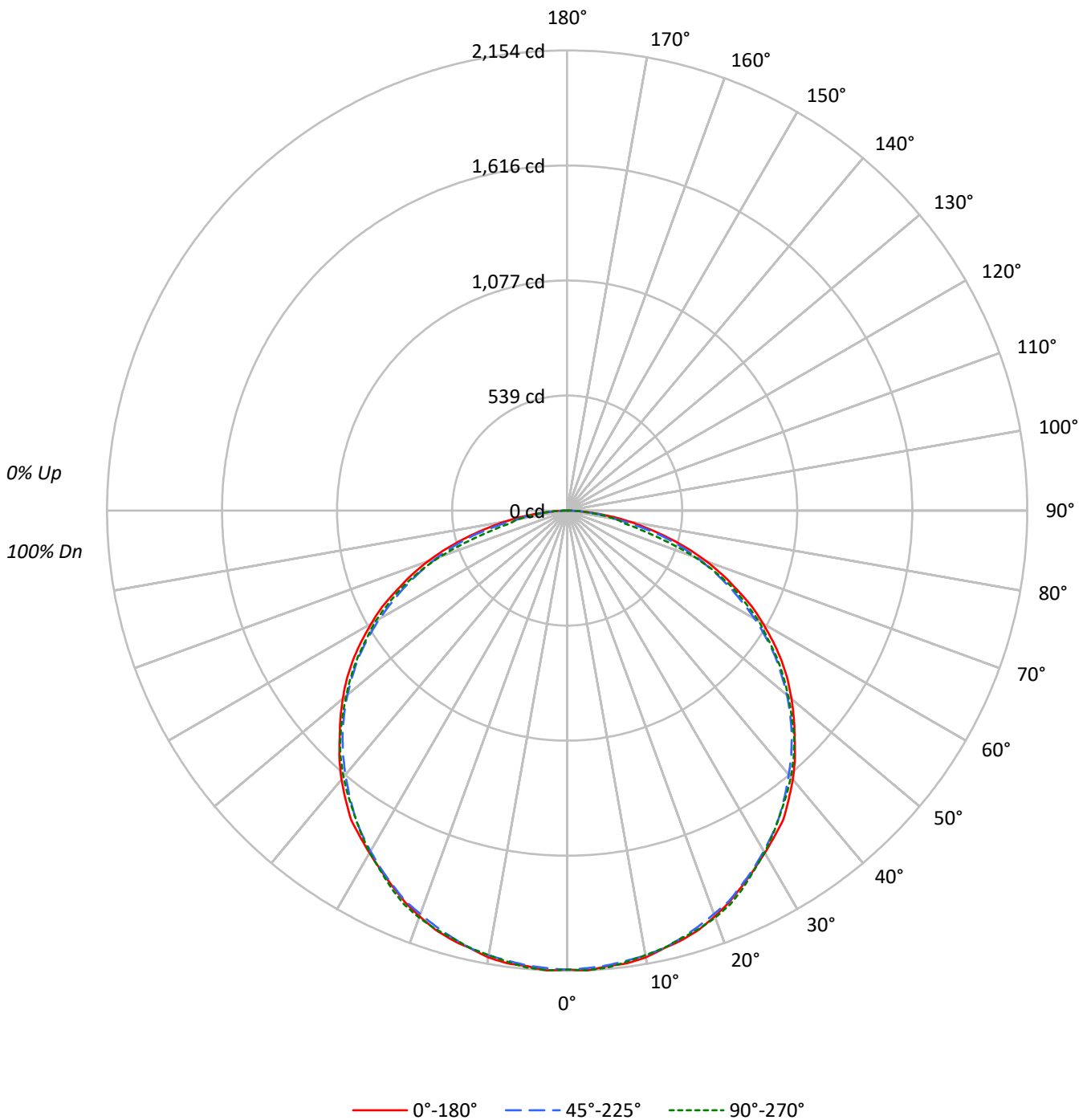
Input Watts (W): 47.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393642

CATALOG NUMBER: 24EN-LD2-67-UNV-L83050-W2A-1-U (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P393642

CATALOG NUMBER: 24EN-LD2-67-UNV-L83050-W2A-1-U (2700K)

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°	2891	2891	2891
5°	2892	2886	2901
10°	2901	2888	2887
15°	2899	2884	2886
20°	2894	2878	2902
25°	2878	2870	2893
30°	2875	2860	2872
35°	2899	2853	2853
40°	2886	2835	2860
45°	2866	2829	2858
50°	2870	2811	2827
55°	2874	2788	2809
60°	2851	2729	2788
65°	2795	2651	2719
70°	2725	2558	2494
75°	2533	2377	1921
80°	2287	1817	1809
85°	1832	1669	1519



TEST NUMBER: P393642

CATALOG NUMBER: 24EN-LD2-67-UNV-L83050-W2A-1-U (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	3.2
10°-20°	585.2	9.1
20°-30°	893.7	13.9
30°-40°	1089.0	17.0
40°-50°	1152.9	17.9
50°-60°	1068.1	16.6
60°-70°	838.6	13.1
70°-80°	467.5	7.3
80°-90°	124.7	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°	1682.3	26.2
0°-40°	2771.3	43.1
0°-60°	4992.2	77.7
0°-90°	6423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2149	2149	2149	2149	2149	
5°	2141	2145	2137	2134	2148	204
15°	2081	2073	2070	2067	2072	587
25°	1938	1940	1934	1936	1949	895
35°	1765	1743	1737	1729	1737	1100
45°	1506	1503	1487	1489	1502	1165
55°	1225	1205	1189	1182	1197	1093
65°	878	860	833	843	854	871
75°	487	471	457	393	370	517
85°	119	109	108	99	98	138
90°	0	0	0	0	0	



TEST NUMBER: P393642

CATALOG NUMBER: 24EN-LD2-67-UNV-L83050-W2A-1-U (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2148.7	2148.7	2148.7	2148.7	2148.7
2.5°	2154.4	2144.8	2143.8	2145.8	2153.5
5°	2140.9	2144.8	2137.1	2134.2	2147.7
7.5°	2138.0	2136.1	2125.5	2118.7	2130.3
10°	2123.6	2120.7	2113.9	2103.3	2113.0
12.5°	2098.5	2100.4	2097.5	2085.9	2096.6
15°	2081.1	2073.4	2070.5	2066.6	2071.5
17.5°	2056.0	2040.6	2041.6	2047.3	2053.1
20°	2021.3	2007.8	2009.7	2020.3	2027.1
22.5°	1983.7	1977.9	1978.8	1982.7	1995.2
25°	1938.3	1940.3	1933.5	1936.4	1948.9
27.5°	1893.9	1900.7	1889.1	1886.2	1896.8
30°	1850.5	1853.4	1840.9	1834.1	1848.6
32.5°	1807.1	1800.4	1791.7	1782.0	1793.6
35°	1764.7	1743.4	1736.7	1729.0	1736.7
37.5°	1703.9	1686.5	1675.9	1676.9	1683.6
40°	1643.1	1623.8	1614.1	1621.9	1628.6
42.5°	1578.4	1561.1	1552.4	1558.2	1569.8
45°	1506.1	1503.2	1486.8	1488.7	1502.2
47.5°	1439.5	1435.7	1416.4	1416.4	1426.0
50°	1371.0	1360.4	1343.0	1337.2	1350.7
52.5°	1301.5	1283.2	1264.9	1263.0	1274.5
55°	1225.3	1205.1	1188.7	1181.9	1197.3
57.5°	1142.3	1123.1	1101.8	1101.8	1111.5
60°	1059.4	1036.2	1014.0	1015.0	1036.2
62.5°	975.4	952.3	921.4	927.2	944.6
65°	878.0	859.7	832.6	843.3	853.9
67.5°	788.3	768.0	740.0	749.7	749.7
70°	692.7	666.7	650.3	639.7	633.9
72.5°	592.4	568.3	556.7	518.1	501.7
75°	487.2	470.8	457.3	392.7	369.5
77.5°	386.9	378.2	341.5	285.6	272.1
80°	295.2	288.5	234.5	232.5	233.5
82.5°	201.6	193.9	179.5	167.9	162.1
85°	118.7	109.0	108.1	99.4	98.4
87.5°	39.6	43.4	45.3	44.4	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)