

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: P393717

Luminaire Tested: **24EN-LD2-74-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393717
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 (4000K)
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: 6096.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

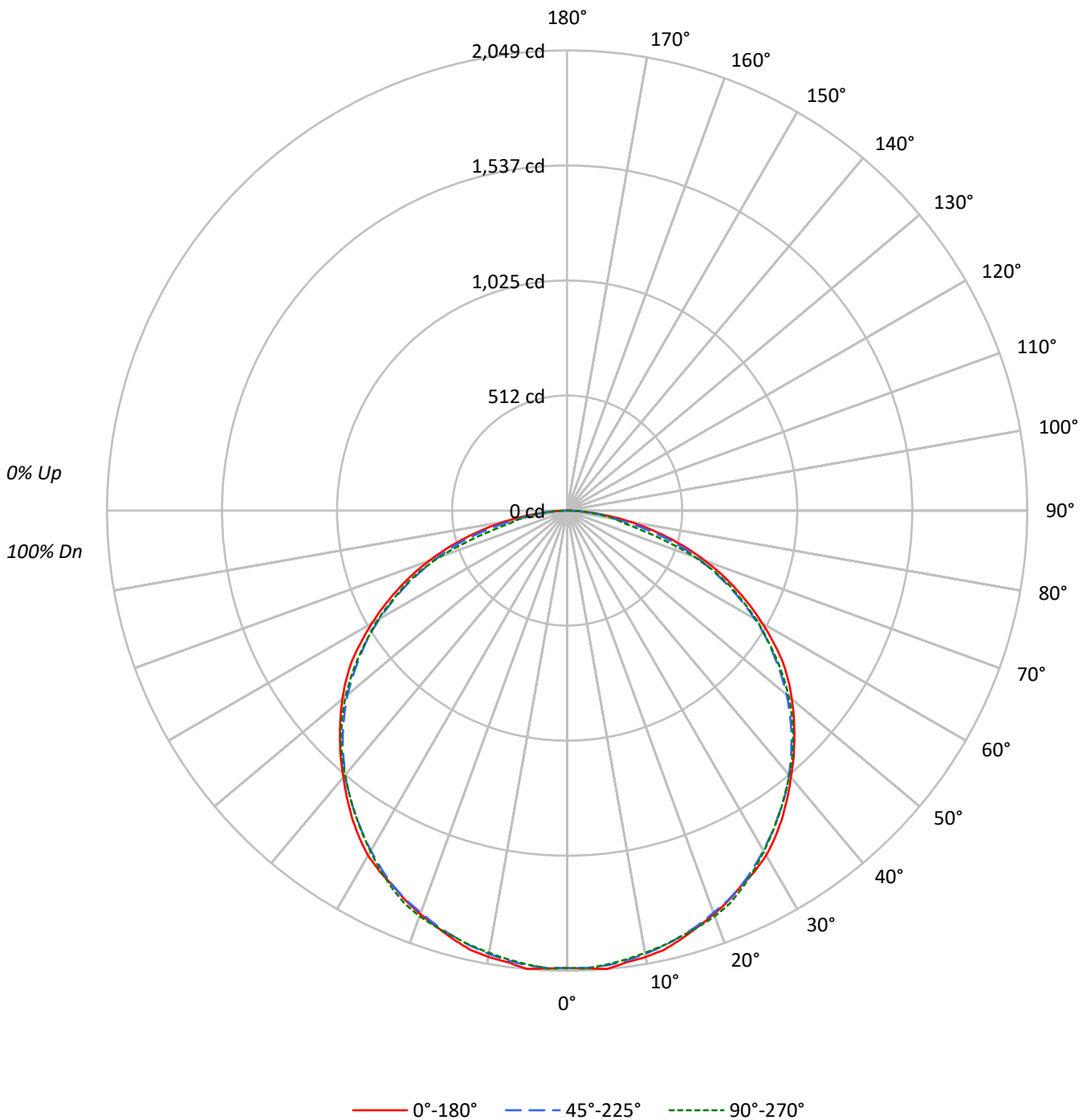
Input Watts (W): 55
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	41	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°	2741	2741	2741
5°	2767	2746	2740
10°	2757	2739	2732
15°	2749	2733	2734
20°	2738	2728	2752
25°	2732	2731	2748
30°	2755	2716	2722
35°	2743	2703	2706
40°	2722	2700	2702
45°	2723	2689	2708
50°	2735	2673	2695
55°	2747	2636	2656
60°	2702	2595	2622
65°	2651	2520	2562
70°	2570	2430	2375
75°	2429	2231	1831
80°	2166	1724	1691
85°	1698	1596	1468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	3.2
10°-20°	554.8	9.1
20°-30°	848.0	13.9
30°-40°	1033.8	17.0
40°-50°	1094.2	17.9
50°-60°	1014.1	16.6
60°-70°	795.6	13.1
70°-80°	443.8	7.3
80°-90°	118.7	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°	1595.8	26.2
0°-40°	2629.7	43.1
0°-60°	4737.9	77.7
0°-90°	6096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2037	2037	2037	2037	2037	
5°	2049	2030	2033	2029	2029	194
15°	1973	1966	1962	1961	1963	557
25°	1840	1842	1839	1832	1851	851
35°	1670	1650	1646	1652	1648	1044
45°	1431	1429	1413	1405	1423	1105
55°	1171	1140	1124	1126	1132	1042
65°	833	818	792	800	805	823
75°	467	448	429	376	352	492
85°	110	104	103	97	95	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2037.0	2037.0	2037.0	2037.0	2037.0
2.5°	2040.3	2035.3	2037.8	2030.4	2040.3
5°	2048.6	2029.5	2032.9	2028.7	2028.7
7.5°	2028.7	2020.5	2020.5	2021.3	2015.5
10°	2018.0	2007.2	2004.7	2007.2	1999.8
12.5°	2002.3	1986.5	1984.9	1986.5	1983.2
15°	1973.3	1965.9	1961.7	1960.9	1962.6
17.5°	1941.9	1940.2	1936.1	1932.8	1943.5
20°	1912.1	1913.8	1905.5	1903.0	1922.0
22.5°	1879.0	1879.0	1875.7	1867.5	1893.1
25°	1840.2	1841.8	1839.3	1831.9	1850.9
27.5°	1810.4	1798.0	1795.5	1793.0	1802.9
30°	1773.2	1750.8	1748.4	1749.2	1751.7
32.5°	1724.4	1702.0	1697.9	1702.9	1699.6
35°	1669.8	1649.9	1645.8	1651.6	1647.5
37.5°	1611.1	1599.5	1594.5	1594.5	1592.9
40°	1549.9	1544.9	1537.5	1535.0	1538.3
42.5°	1492.0	1491.1	1475.4	1472.1	1484.5
45°	1430.8	1429.1	1413.4	1405.1	1423.3
47.5°	1369.6	1363.0	1345.6	1337.3	1358.0
50°	1306.7	1291.0	1276.9	1274.5	1287.7
52.5°	1241.4	1216.6	1200.0	1198.4	1211.6
55°	1171.1	1139.7	1123.9	1126.4	1132.2
57.5°	1087.6	1063.6	1047.9	1047.0	1050.3
60°	1004.0	983.3	964.3	966.8	974.2
62.5°	918.8	902.3	879.1	886.6	886.6
65°	832.8	817.9	791.5	799.7	804.7
67.5°	745.2	728.6	703.0	707.1	712.1
70°	653.4	635.2	617.8	602.1	603.7
72.5°	560.7	540.9	529.3	489.6	478.0
75°	467.3	448.3	429.2	375.5	352.3
77.5°	372.2	361.4	325.0	267.1	258.9
80°	279.5	274.6	222.5	219.2	218.3
82.5°	193.5	185.3	169.5	159.6	157.1
85°	110.0	104.2	103.4	96.8	95.1
87.5°	38.9	41.4	42.2	42.2	42.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)