

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: P393699

Luminaire Tested: **24EN-LD2-74-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393699  
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-L82765-W2A-1-U (3000K)  
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6760.7 lumens  
Efficiency: N/A  
Efficacy: 122.5 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

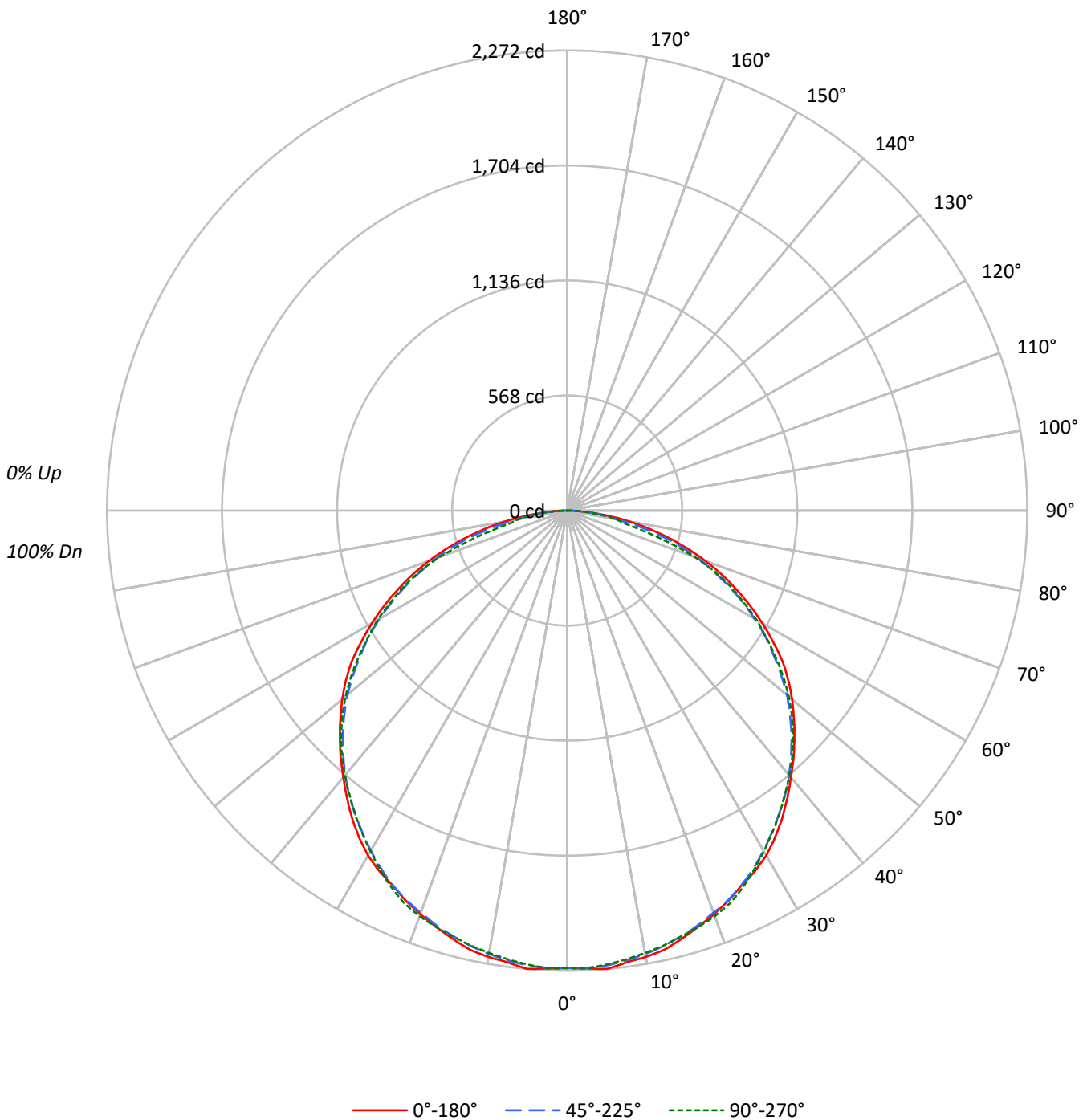
Input Watts (W): 55.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3040	3040	3040
5°	3068	3045	3039
10°	3058	3038	3030
15°	3048	3031	3032
20°	3036	3026	3052
25°	3030	3028	3047
30°	3055	3013	3018
35°	3042	2998	3001
40°	3019	2995	2996
45°	3019	2983	3004
50°	3033	2964	2989
55°	3047	2924	2946
60°	2996	2878	2908
65°	2940	2795	2841
70°	2851	2696	2634
75°	2694	2475	2031
80°	2402	1912	1876
85°	1883	1771	1629



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.2	3.2
10°-20°	615.2	9.1
20°-30°	940.4	13.9
30°-40°	1146.6	17.0
40°-50°	1213.5	17.9
50°-60°	1124.6	16.6
60°-70°	882.3	13.1
70°-80°	492.2	7.3
80°-90°	131.6	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°	1769.8	26.2
0°-40°	2916.4	43.1
0°-60°	5254.6	77.7
0°-90°	6760.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6760.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2259	2259	2259	2259	2259	
5°	2272	2251	2254	2250	2250	215
15°	2188	2180	2176	2175	2177	618
25°	2041	2043	2040	2032	2053	944
35°	1852	1830	1825	1832	1827	1158
45°	1587	1585	1568	1558	1578	1226
55°	1299	1264	1246	1249	1256	1155
65°	924	907	878	887	892	913
75°	518	497	476	416	391	546
85°	122	116	115	107	106	145
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2259.1	2259.1	2259.1	2259.1	2259.1
2.5°	2262.8	2257.3	2260.0	2251.8	2262.8
5°	2271.9	2250.9	2254.5	2249.9	2249.9
7.5°	2249.9	2240.8	2240.8	2241.7	2235.3
10°	2238.0	2226.1	2223.3	2226.1	2217.8
12.5°	2220.6	2203.2	2201.3	2203.2	2199.5
15°	2188.5	2180.2	2175.6	2174.7	2176.6
17.5°	2153.6	2151.8	2147.2	2143.5	2155.5
20°	2120.6	2122.4	2113.3	2110.5	2131.6
22.5°	2083.9	2083.9	2080.3	2071.1	2099.5
25°	2040.8	2042.6	2039.9	2031.6	2052.7
27.5°	2007.8	1994.0	1991.3	1988.5	1999.5
30°	1966.5	1941.8	1939.0	1939.9	1942.7
32.5°	1912.4	1887.6	1883.0	1888.6	1884.9
35°	1851.9	1829.9	1825.3	1831.7	1827.1
37.5°	1786.7	1773.9	1768.4	1768.4	1766.6
40°	1718.9	1713.4	1705.1	1702.4	1706.0
42.5°	1654.7	1653.7	1636.3	1632.6	1646.4
45°	1586.8	1585.0	1567.5	1558.4	1578.5
47.5°	1518.9	1511.6	1492.3	1483.1	1506.1
50°	1449.2	1431.8	1416.2	1413.4	1428.1
52.5°	1376.7	1349.2	1330.9	1329.0	1343.7
55°	1298.8	1263.9	1246.5	1249.3	1255.7
57.5°	1206.1	1179.5	1162.1	1161.2	1164.9
60°	1113.5	1090.6	1069.5	1072.2	1080.5
62.5°	1019.0	1000.7	975.0	983.3	983.3
65°	923.6	907.1	877.8	887.0	892.5
67.5°	826.4	808.1	779.6	784.2	789.7
70°	724.6	704.4	685.2	667.7	669.6
72.5°	621.9	599.9	587.0	543.0	530.2
75°	518.2	497.1	476.0	416.4	390.7
77.5°	412.7	400.8	360.5	296.3	287.1
80°	310.0	304.5	246.7	243.1	242.1
82.5°	214.6	205.5	188.0	177.0	174.3
85°	122.0	115.6	114.7	107.3	105.5
87.5°	43.1	45.9	46.8	46.8	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)