

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: P393720

Luminaire Tested: **24EN-LD2-74-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393720  
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 (5700K)  
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6308.5 lumens  
Efficiency: N/A  
Efficacy: 114.9 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

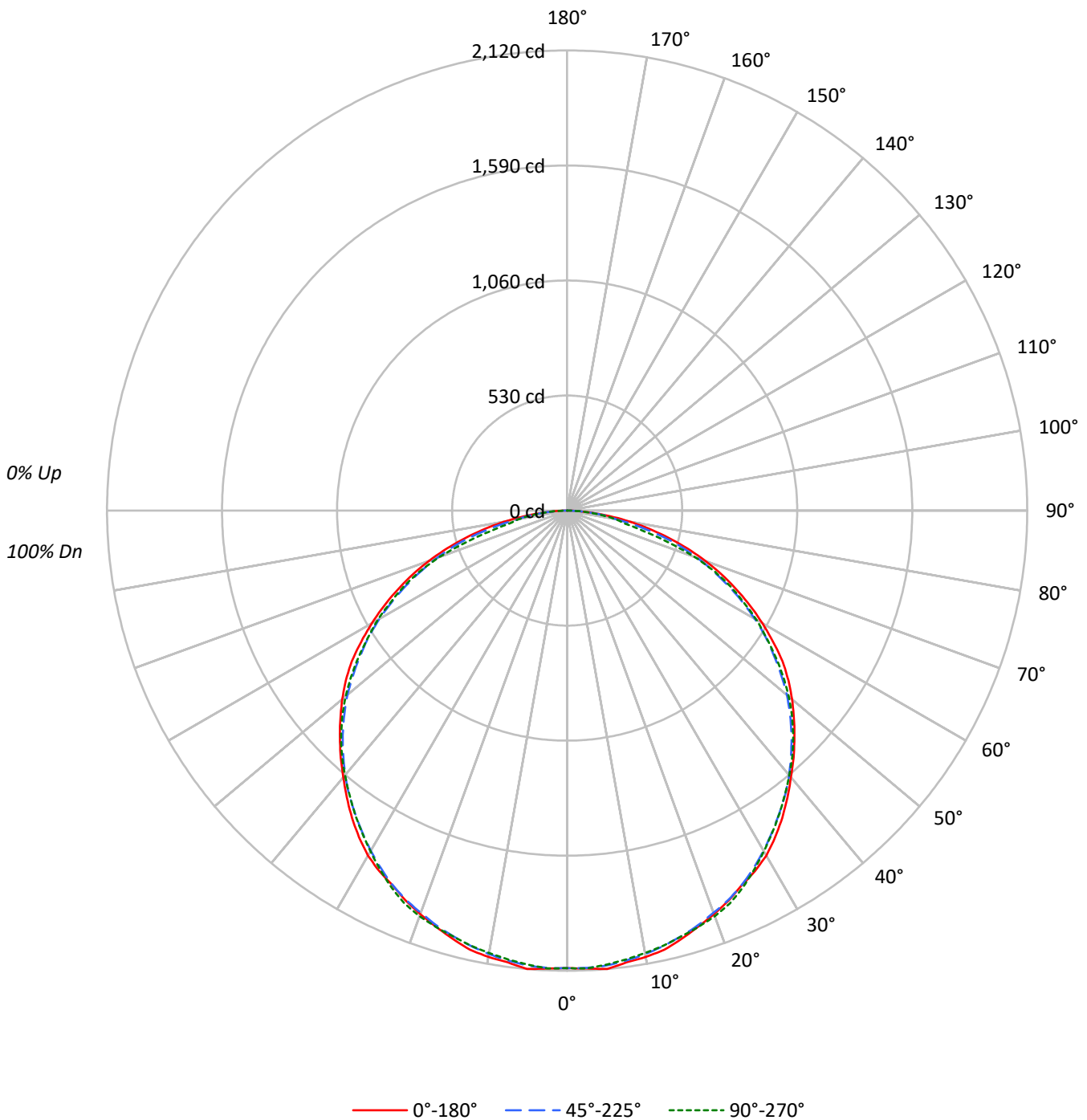
Input Watts (W): 54.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2836	2836	2836
5°	2863	2841	2836
10°	2853	2834	2827
15°	2845	2828	2829
20°	2833	2823	2848
25°	2827	2826	2844
30°	2851	2811	2816
35°	2838	2798	2800
40°	2817	2795	2796
45°	2817	2783	2803
50°	2831	2766	2789
55°	2843	2728	2749
60°	2796	2685	2713
65°	2744	2608	2651
70°	2660	2515	2458
75°	2514	2309	1895
80°	2242	1784	1750
85°	1757	1652	1519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.9	3.2
10°-20°	574.1	9.1
20°-30°	877.5	13.9
30°-40°	1069.9	17.0
40°-50°	1132.3	17.9
50°-60°	1049.4	16.6
60°-70°	823.3	13.1
70°-80°	459.3	7.3
80°-90°	122.8	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°	1651.5	26.2
0°-40°	2721.3	43.1
0°-60°	4903.1	77.7
0°-90°	6308.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6308.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2120	2100	2104	2099	2099	201
15°	2042	2034	2030	2029	2031	576
25°	1904	1906	1904	1896	1915	881
35°	1728	1708	1703	1709	1705	1081
45°	1481	1479	1463	1454	1473	1144
55°	1212	1179	1163	1166	1172	1078
65°	862	846	819	828	833	852
75°	484	464	444	389	365	509
85°	114	108	107	100	98	136
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2108.0	2108.0	2108.0	2108.0	2108.0
2.5°	2111.4	2106.3	2108.9	2101.2	2111.4
5°	2120.0	2100.3	2103.7	2099.4	2099.4
7.5°	2099.4	2090.9	2090.9	2091.7	2085.8
10°	2088.3	2077.2	2074.6	2077.2	2069.5
12.5°	2072.1	2055.8	2054.1	2055.8	2052.4
15°	2042.1	2034.4	2030.1	2029.3	2031.0
17.5°	2009.6	2007.9	2003.6	2000.2	2011.3
20°	1978.8	1980.5	1971.9	1969.4	1989.0
22.5°	1944.5	1944.5	1941.1	1932.6	1959.1
25°	1904.3	1906.0	1903.5	1895.7	1915.4
27.5°	1873.5	1860.7	1858.1	1855.5	1865.8
30°	1835.0	1811.9	1809.3	1810.2	1812.7
32.5°	1784.5	1761.4	1757.1	1762.2	1758.8
35°	1728.0	1707.5	1703.2	1709.2	1704.9
37.5°	1667.2	1655.3	1650.1	1650.1	1648.4
40°	1603.9	1598.8	1591.1	1588.5	1591.9
42.5°	1544.0	1543.1	1526.9	1523.4	1536.3
45°	1480.7	1478.9	1462.7	1454.1	1473.0
47.5°	1417.3	1410.5	1392.5	1383.9	1405.3
50°	1352.3	1336.0	1321.5	1318.9	1332.6
52.5°	1284.7	1259.0	1241.9	1240.2	1253.8
55°	1211.9	1179.4	1163.1	1165.7	1171.7
57.5°	1125.5	1100.6	1084.4	1083.5	1087.0
60°	1039.0	1017.6	997.9	1000.5	1008.2
62.5°	950.9	933.8	909.8	917.5	917.5
65°	861.9	846.5	819.1	827.6	832.8
67.5°	771.1	754.0	727.5	731.8	736.9
70°	676.1	657.3	639.3	623.1	624.8
72.5°	580.3	559.7	547.8	506.7	494.7
75°	483.6	463.9	444.2	388.6	364.6
77.5°	385.1	374.0	336.4	276.4	267.9
80°	289.3	284.1	230.2	226.8	225.9
82.5°	200.3	191.7	175.5	165.2	162.6
85°	113.8	107.8	107.0	100.1	98.4
87.5°	40.2	42.8	43.6	43.6	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)