

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: P393644

Luminaire Tested: **24EN-LD2-67-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393644
Test Lab: INNOVATION CENTER (G3)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L83050-W2A-1-U (3500K)
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: 6657.2 lumens
Efficiency: N/A
Efficacy: 135.9 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

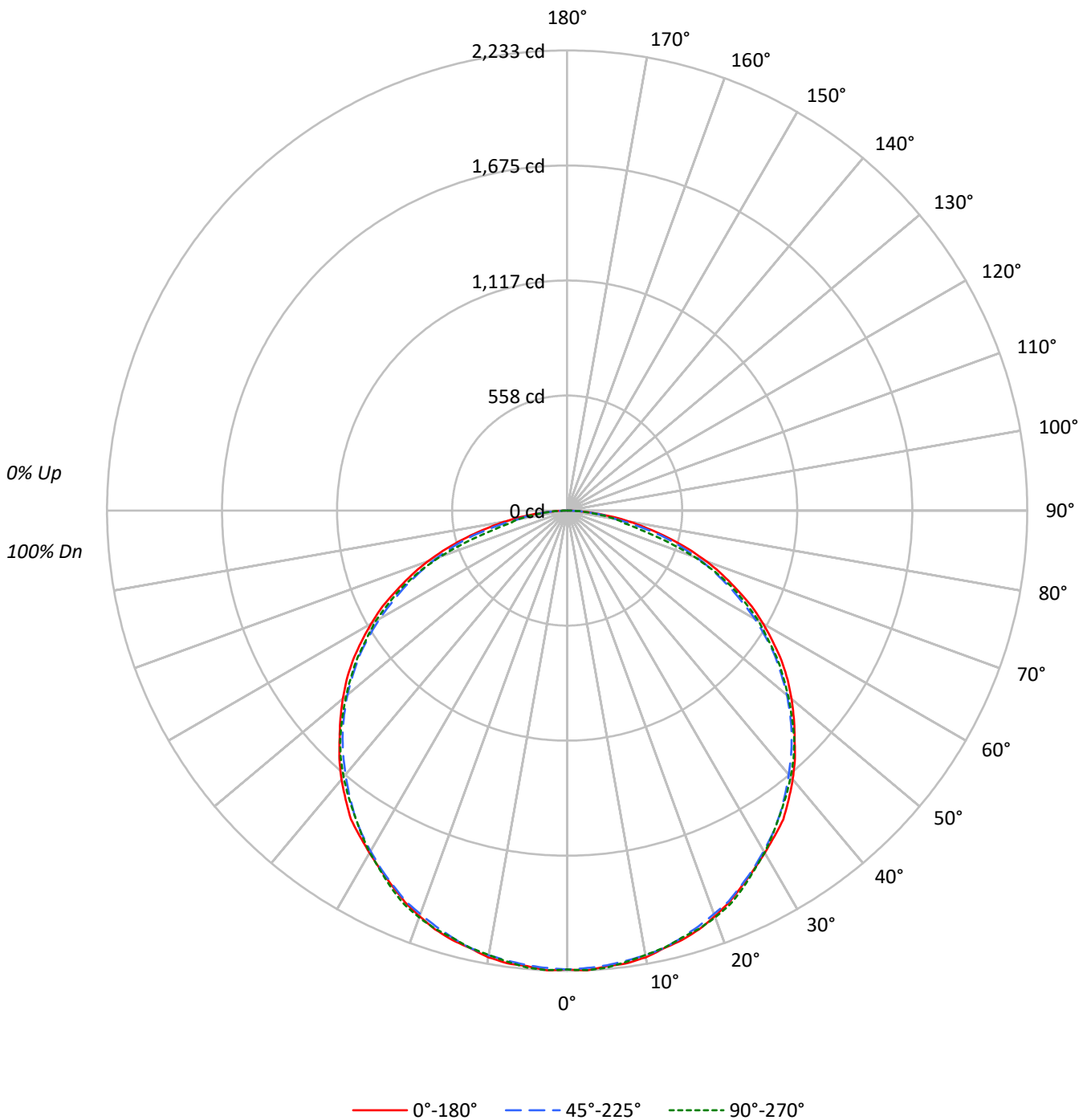
Input Watts (W): 49
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	42	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°	2996	2996	2996
5°	2997	2992	3007
10°	3007	2993	2992
15°	3005	2989	2991
20°	3000	2983	3008
25°	2983	2975	2999
30°	2980	2964	2977
35°	3004	2957	2957
40°	2991	2938	2965
45°	2970	2932	2963
50°	2974	2914	2930
55°	2979	2890	2911
60°	2955	2828	2890
65°	2897	2748	2818
70°	2825	2651	2585
75°	2625	2464	1991
80°	2371	1883	1875
85°	1899	1729	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	3.2
10°-20°	606.5	9.1
20°-30°	926.3	13.9
30°-40°	1128.7	17.0
40°-50°	1194.9	17.9
50°-60°	1107.0	16.6
60°-70°	869.2	13.1
70°-80°	484.5	7.3
80°-90°	129.2	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°	1743.7	26.2
0°-40°	2872.3	43.1
0°-60°	5174.3	77.7
0°-90°	6657.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6657.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2227	2227	2227	2227	2227	
5°	2219	2223	2215	2212	2226	212
15°	2157	2149	2146	2142	2147	609
25°	2009	2011	2004	2007	2020	927
35°	1829	1807	1800	1792	1800	1140
45°	1561	1558	1541	1543	1557	1207
55°	1270	1249	1232	1225	1241	1133
65°	910	891	863	874	885	902
75°	505	488	474	407	383	536
85°	123	113	112	103	102	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2227	2227	2227	2227	2227
2.5°	2233	2223	2222	2224	2232
5°	2219	2223	2215	2212	2226
7.5°	2216	2214	2203	2196	2208
10°	2201	2198	2191	2180	2190
12.5°	2175	2177	2174	2162	2173
15°	2157	2149	2146	2142	2147
17.5°	2131	2115	2116	2122	2128
20°	2095	2081	2083	2094	2101
22.5°	2056	2050	2051	2055	2068
25°	2009	2011	2004	2007	2020
27.5°	1963	1970	1958	1955	1966
30°	1918	1921	1908	1901	1916
32.5°	1873	1866	1857	1847	1859
35°	1829	1807	1800	1792	1800
37.5°	1766	1748	1737	1738	1745
40°	1703	1683	1673	1681	1688
42.5°	1636	1618	1609	1615	1627
45°	1561	1558	1541	1543	1557
47.5°	1492	1488	1468	1468	1478
50°	1421	1410	1392	1386	1400
52.5°	1349	1330	1311	1309	1321
55°	1270	1249	1232	1225	1241
57.5°	1184	1164	1142	1142	1152
60°	1098	1074	1051	1052	1074
62.5°	1011	987	955	961	979
65°	910	891	863	874	885
67.5°	817	796	767	777	777
70°	718	691	674	663	657
72.5°	614	589	577	537	520
75°	505	488	474	407	383
77.5°	401	392	354	296	282
80°	306	299	243	241	242
82.5°	209	201	186	174	168
85°	123	113	112	103	102
87.5°	41	45	47	46	47
90°	0	0	0	0	0

(END OF REPORT)