

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: P393225

Luminaire Tested: **22EN-LD2-19-UNV-L82765-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-19-UNV-L82765-W2A-1-U (6500K)
Description: 2X2 ENCOUNTER, 1900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2137.4 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

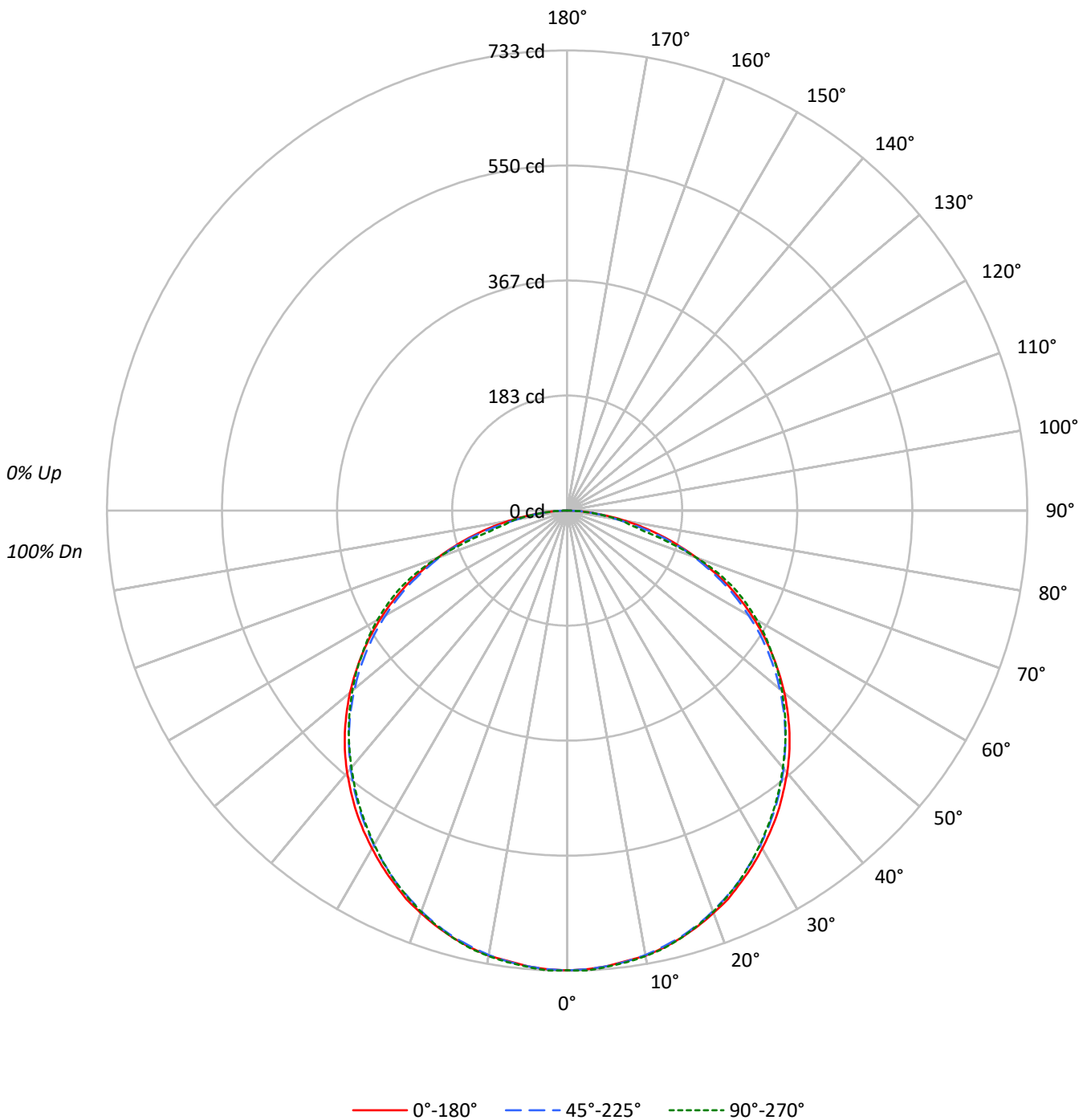
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1971	1971	1971
5°	1968	1968	1970
10°	1967	1964	1969
15°	1962	1957	1962
20°	1953	1945	1948
25°	1942	1931	1931
30°	1931	1913	1910
35°	1924	1898	1892
40°	1915	1884	1878
45°	1905	1869	1873
50°	1890	1850	1870
55°	1870	1829	1870
60°	1843	1796	1880
65°	1806	1757	1874
70°	1723	1693	1723
75°	1625	1545	1325
80°	1466	1255	1331
85°	1071	1102	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	3.2
10°-20°	198.3	9.3
20°-30°	299.8	14.0
30°-40°	362.3	17.0
40°-50°	380.4	17.8
50°-60°	352.2	16.5
60°-70°	277.8	13.0
70°-80°	155.3	7.3
80°-90°	42.0	2.0
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°	567.4	26.5
0°-40°	929.7	43.5
0°-60°	1662.4	77.8
0°-90°	2137.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2137.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	728	728	728	728	729	69
15°	704	702	702	702	704	199
25°	654	652	650	648	650	302
35°	586	583	578	574	576	366
45°	501	497	491	488	492	386
55°	398	396	390	392	398	356
65°	284	280	276	286	294	279
75°	156	153	149	134	127	165
85°	35	35	36	36	35	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.3	732.3	732.3	732.3	732.3
2.5°	731.3	730.4	731.3	731.3	733.3
5°	728.4	727.5	728.4	728.4	729.4
7.5°	723.6	723.6	724.6	724.6	725.5
10°	719.8	718.8	718.8	718.8	720.7
12.5°	713.0	711.1	711.1	712.0	714.0
15°	704.3	702.4	702.4	702.4	704.3
17.5°	693.7	692.7	691.8	691.8	692.7
20°	682.1	680.2	679.2	679.2	680.2
22.5°	669.6	666.7	664.8	663.8	665.7
25°	654.1	652.2	650.3	648.4	650.3
27.5°	638.7	635.8	632.9	631.0	632.9
30°	621.3	619.4	615.6	612.7	614.6
32.5°	604.0	602.0	597.2	594.3	595.3
35°	585.6	582.8	577.9	574.1	576.0
37.5°	565.4	563.5	557.7	553.8	555.7
40°	545.1	542.2	536.4	532.6	534.5
42.5°	523.9	520.0	514.2	510.4	513.3
45°	500.7	496.9	491.1	488.2	492.1
47.5°	476.6	472.8	467.0	465.0	469.9
50°	451.5	448.6	441.9	441.9	446.7
52.5°	425.5	421.6	416.8	417.8	423.6
55°	398.5	395.6	389.8	391.7	398.5
57.5°	371.5	367.6	362.8	366.6	375.3
60°	342.5	338.7	333.8	340.6	349.3
62.5°	313.6	309.7	305.8	313.6	322.2
65°	283.7	279.8	275.9	285.6	294.3
67.5°	250.9	247.0	244.1	253.7	260.5
70°	219.0	215.2	215.2	216.1	219.0
72.5°	187.2	185.2	183.3	176.6	172.7
75°	156.3	153.4	148.6	134.1	127.4
77.5°	124.5	121.6	112.9	100.3	101.3
80°	94.6	91.7	81.0	83.9	85.9
82.5°	63.7	62.7	59.8	58.9	58.9
85°	34.7	34.7	35.7	35.7	34.7
87.5°	14.5	14.5	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)