

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: P393224

Luminaire Tested: **22EN-LD2-19-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393224
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 (5700K)
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: 2135.2 lumens
Efficiency: N/A
Efficacy: 135.1 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

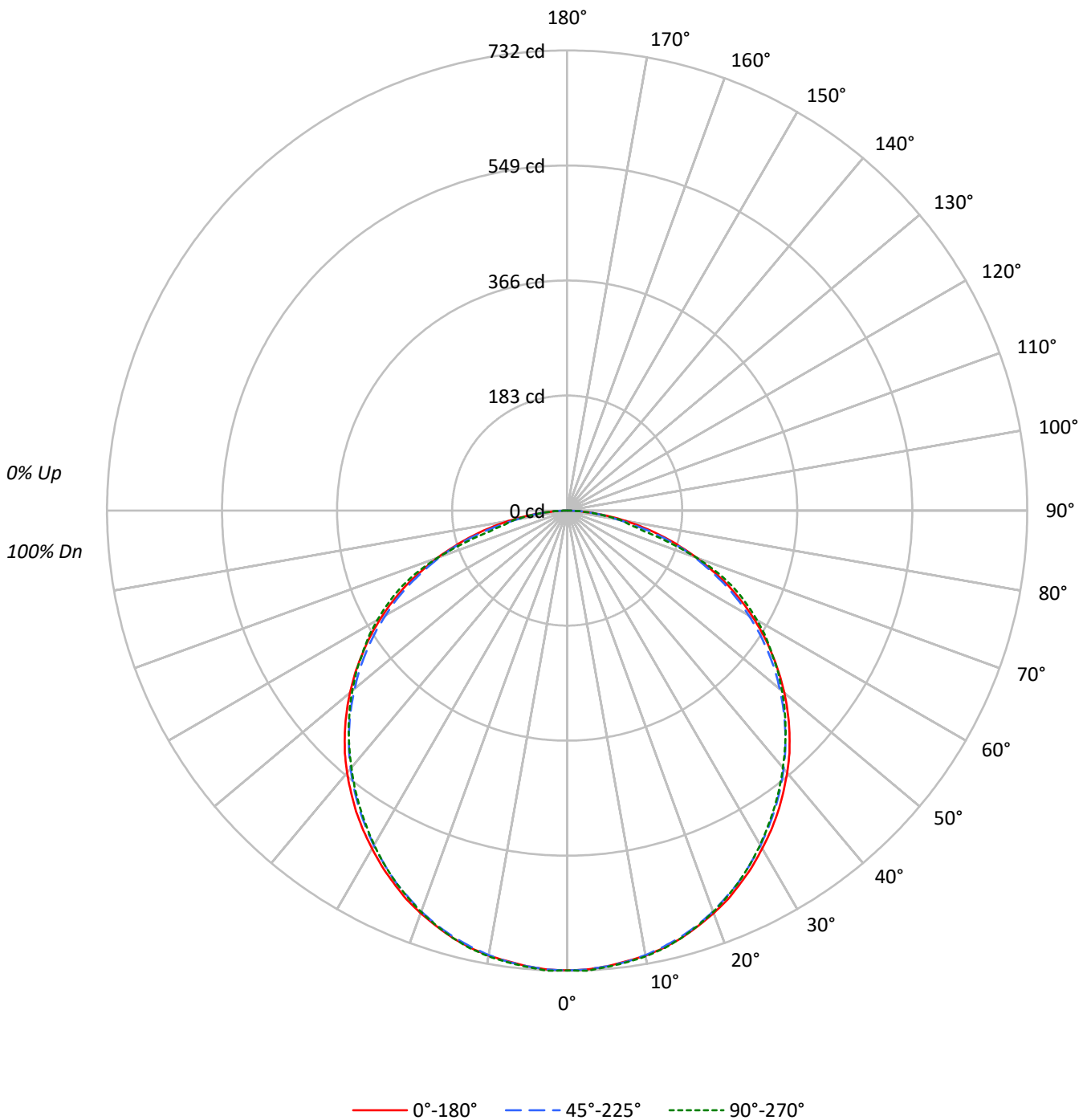
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1968	1968	1968
5°	1966	1966	1968
10°	1965	1962	1967
15°	1960	1955	1960
20°	1951	1943	1946
25°	1940	1929	1929
30°	1929	1911	1908
35°	1922	1896	1890
40°	1913	1883	1876
45°	1904	1867	1870
50°	1888	1848	1868
55°	1868	1827	1868
60°	1842	1795	1878
65°	1805	1755	1872
70°	1721	1691	1721
75°	1623	1543	1323
80°	1464	1255	1330
85°	1071	1102	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	3.2
10°-20°	198.1	9.3
20°-30°	299.5	14.0
30°-40°	361.9	17.0
40°-50°	380.1	17.8
50°-60°	351.8	16.5
60°-70°	277.5	13.0
70°-80°	155.2	7.3
80°-90°	41.9	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°	566.8	26.5
0°-40°	928.8	43.5
0°-60°	1660.6	77.8
0°-90°	2135.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	728	727	728	728	729	69
15°	704	702	702	702	704	199
25°	654	652	650	648	650	301
35°	585	582	577	574	575	366
45°	500	496	491	488	492	386
55°	398	395	389	391	398	356
65°	283	280	276	285	294	279
75°	156	153	148	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°	731.5	731.5	731.5	731.5	731.5
2.5°	730.6	729.6	730.6	730.6	732.5
5°	727.7	726.7	727.7	727.7	728.6
7.5°	722.9	722.9	723.8	723.8	724.8
10°	719.0	718.0	718.0	718.0	720.0
12.5°	712.3	710.3	710.3	711.3	713.2
15°	703.6	701.7	701.7	701.7	703.6
17.5°	693.0	692.0	691.1	691.1	692.0
20°	681.4	679.5	678.5	678.5	679.5
22.5°	668.9	666.0	664.1	663.1	665.0
25°	653.5	651.5	649.6	647.7	649.6
27.5°	638.0	635.2	632.3	630.3	632.3
30°	620.7	618.8	614.9	612.0	614.0
32.5°	603.3	601.4	596.6	593.7	594.7
35°	585.0	582.1	577.3	573.5	575.4
37.5°	564.8	562.9	557.1	553.2	555.2
40°	544.6	541.7	535.9	532.0	534.0
42.5°	523.4	519.5	513.7	509.9	512.7
45°	500.2	496.4	490.6	487.7	491.5
47.5°	476.1	472.3	466.5	464.6	469.4
50°	451.1	448.2	441.4	441.4	446.2
52.5°	425.0	421.2	416.4	417.3	423.1
55°	398.1	395.2	389.4	391.3	398.1
57.5°	371.1	367.2	362.4	366.2	374.9
60°	342.2	338.3	333.5	340.2	348.9
62.5°	313.2	309.4	305.5	313.2	321.9
65°	283.4	279.5	275.7	285.3	294.0
67.5°	250.6	246.7	243.8	253.5	260.2
70°	218.8	214.9	214.9	215.9	218.8
72.5°	187.0	185.1	183.1	176.4	172.5
75°	156.1	153.2	148.4	134.0	127.2
77.5°	124.3	121.4	112.8	100.2	101.2
80°	94.5	91.6	81.0	83.9	85.8
82.5°	63.6	62.6	59.8	58.8	58.8
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)