

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: P393223

Luminaire Tested: **22EN-LD2-19-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393223
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 (5000K)
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: 2127.4 lumens
Efficiency: N/A
Efficacy: 133.8 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

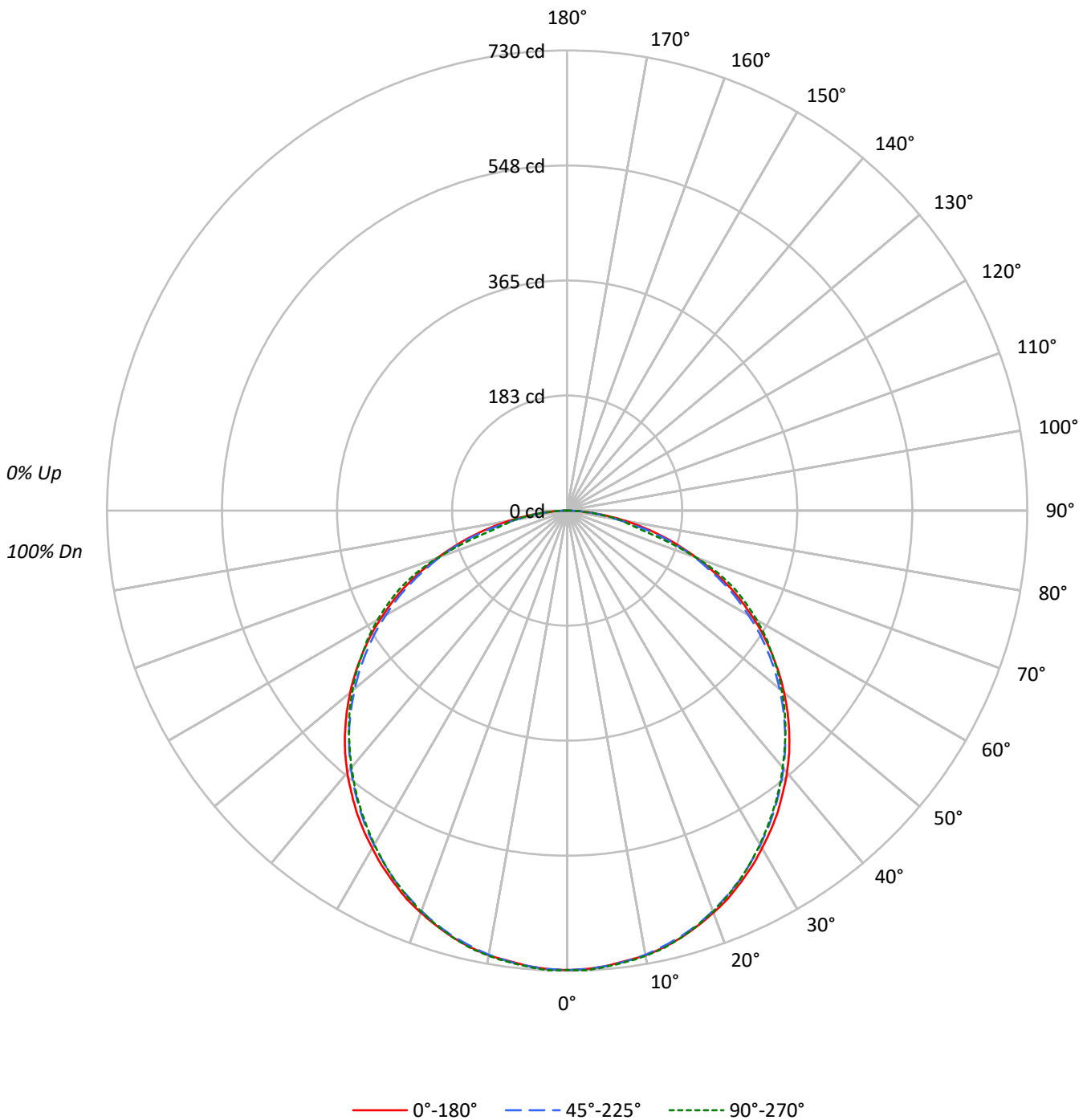
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1961	1961	1961
5°	1958	1958	1961
10°	1958	1955	1960
15°	1953	1948	1953
20°	1944	1936	1939
25°	1933	1922	1922
30°	1922	1904	1901
35°	1915	1890	1883
40°	1906	1875	1869
45°	1897	1860	1864
50°	1881	1841	1861
55°	1861	1820	1861
60°	1835	1788	1871
65°	1798	1748	1865
70°	1715	1685	1715
75°	1618	1538	1318
80°	1458	1251	1325
85°	1068	1096	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.2
10°-20°	197.4	9.3
20°-30°	298.4	14.0
30°-40°	360.6	17.0
40°-50°	378.7	17.8
50°-60°	350.5	16.5
60°-70°	276.5	13.0
70°-80°	154.6	7.3
80°-90°	41.8	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°	564.7	26.5
0°-40°	925.3	43.5
0°-60°	1654.5	77.8
0°-90°	2127.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	725	724	725	725	726	69
15°	701	699	699	699	701	198
25°	651	649	647	645	647	300
35°	583	580	575	571	573	365
45°	498	494	489	486	490	384
55°	397	394	388	390	397	355
65°	282	278	275	284	293	278
75°	156	153	148	134	127	164
85°	35	35	36	36	35	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.8	728.8	728.8	728.8	728.8
2.5°	727.9	726.9	727.9	727.9	729.8
5°	725.0	724.0	725.0	725.0	726.0
7.5°	720.2	720.2	721.2	721.2	722.1
10°	716.4	715.4	715.4	715.4	717.3
12.5°	709.6	707.7	707.7	708.7	710.6
15°	701.0	699.1	699.1	699.1	701.0
17.5°	690.4	689.5	688.5	688.5	689.5
20°	678.9	677.0	676.0	676.0	677.0
22.5°	666.4	663.5	661.6	660.7	662.6
25°	651.1	649.1	647.2	645.3	647.2
27.5°	635.7	632.8	629.9	628.0	629.9
30°	618.4	616.5	612.7	609.8	611.7
32.5°	601.1	599.2	594.4	591.5	592.5
35°	582.9	580.0	575.2	571.4	573.3
37.5°	562.7	560.8	555.0	551.2	553.1
40°	542.6	539.7	533.9	530.1	532.0
42.5°	521.4	517.6	511.8	508.0	510.9
45°	498.4	494.5	488.8	485.9	489.7
47.5°	474.4	470.5	464.8	462.9	467.7
50°	449.4	446.5	439.8	439.8	444.6
52.5°	423.5	419.6	414.8	415.8	421.6
55°	396.6	393.7	387.9	389.9	396.6
57.5°	369.7	365.9	361.1	364.9	373.5
60°	340.9	337.1	332.3	339.0	347.6
62.5°	312.1	308.2	304.4	312.1	320.7
65°	282.3	278.5	274.6	284.2	292.9
67.5°	249.7	245.8	242.9	252.6	259.3
70°	218.0	214.1	214.1	215.1	218.0
72.5°	186.3	184.4	182.5	175.7	171.9
75°	155.6	152.7	147.9	133.5	126.8
77.5°	123.9	121.0	112.4	99.9	100.8
80°	94.1	91.2	80.7	83.5	85.5
82.5°	63.4	62.4	59.5	58.6	58.6
85°	34.6	34.6	35.5	35.5	34.6
87.5°	14.4	14.4	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)