

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: P393222

Luminaire Tested: **22EN-LD2-19-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393222
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 (4500K)
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: 2130.8 lumens
Efficiency: N/A
Efficacy: 133.2 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

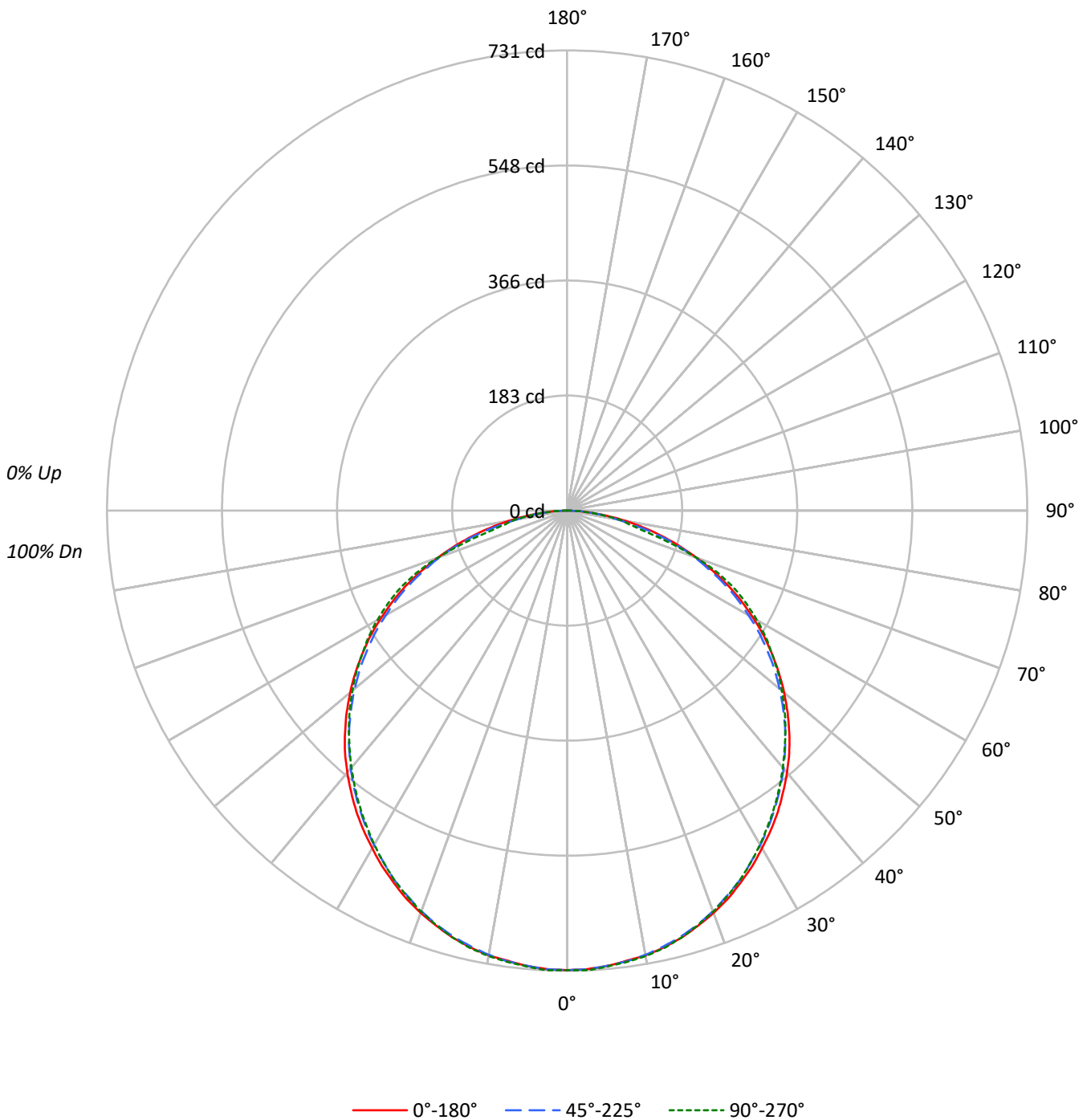
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1964	1964	1964
5°	1962	1962	1964
10°	1961	1958	1963
15°	1956	1951	1956
20°	1947	1939	1942
25°	1936	1925	1925
30°	1925	1907	1904
35°	1918	1893	1886
40°	1909	1879	1872
45°	1900	1863	1867
50°	1884	1844	1864
55°	1863	1823	1863
60°	1837	1791	1874
65°	1801	1752	1868
70°	1718	1688	1718
75°	1620	1540	1320
80°	1461	1252	1327
85°	1068	1099	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.2
10°-20°	197.7	9.3
20°-30°	298.9	14.0
30°-40°	361.2	17.0
40°-50°	379.3	17.8
50°-60°	351.1	16.5
60°-70°	276.9	13.0
70°-80°	154.8	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°	565.6	26.5
0°-40°	926.8	43.5
0°-60°	1657.2	77.8
0°-90°	2130.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2130.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	726	725	726	726	727	69
15°	702	700	700	700	702	198
25°	652	650	648	646	648	301
35°	584	581	576	572	574	365
45°	499	495	490	487	490	385
55°	397	394	389	390	397	355
65°	283	279	275	285	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°	730.0	730.0	730.0	730.0	730.0
2.5°	729.1	728.1	729.1	729.1	731.0
5°	726.2	725.2	726.2	726.2	727.1
7.5°	721.4	721.4	722.3	722.3	723.3
10°	717.5	716.6	716.6	716.6	718.5
12.5°	710.8	708.9	708.9	709.8	711.8
15°	702.1	700.2	700.2	700.2	702.1
17.5°	691.6	690.6	689.6	689.6	690.6
20°	680.0	678.1	677.1	677.1	678.1
22.5°	667.5	664.6	662.7	661.7	663.7
25°	652.1	650.2	648.3	646.3	648.3
27.5°	636.7	633.8	631.0	629.0	631.0
30°	619.4	617.5	613.6	610.8	612.7
32.5°	602.1	600.2	595.4	592.5	593.4
35°	583.8	580.9	576.1	572.3	574.2
37.5°	563.6	561.7	555.9	552.1	554.0
40°	543.4	540.5	534.8	530.9	532.9
42.5°	522.3	518.4	512.7	508.8	511.7
45°	499.2	495.3	489.6	486.7	490.5
47.5°	475.1	471.3	465.5	463.6	468.4
50°	450.1	447.3	440.5	440.5	445.3
52.5°	424.2	420.3	415.5	416.5	422.2
55°	397.2	394.3	388.6	390.5	397.2
57.5°	370.3	366.5	361.6	365.5	374.2
60°	341.4	337.6	332.8	339.5	348.2
62.5°	312.6	308.7	304.9	312.6	321.3
65°	282.8	278.9	275.1	284.7	293.4
67.5°	250.1	246.2	243.3	253.0	259.7
70°	218.3	214.5	214.5	215.4	218.3
72.5°	186.6	184.7	182.7	176.0	172.2
75°	155.8	152.9	148.1	133.7	127.0
77.5°	124.1	121.2	112.5	100.0	101.0
80°	94.3	91.4	80.8	83.7	85.6
82.5°	63.5	62.5	59.6	58.7	58.7
85°	34.6	34.6	35.6	35.6	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)