

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: P393270

Luminaire Tested: **22EN-LD2-25-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-25-UNV-L92765-W2A-1-U (4500K)
Description: 2X2 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2055.4 lumens
Efficiency: N/A
Efficacy: 113.6 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

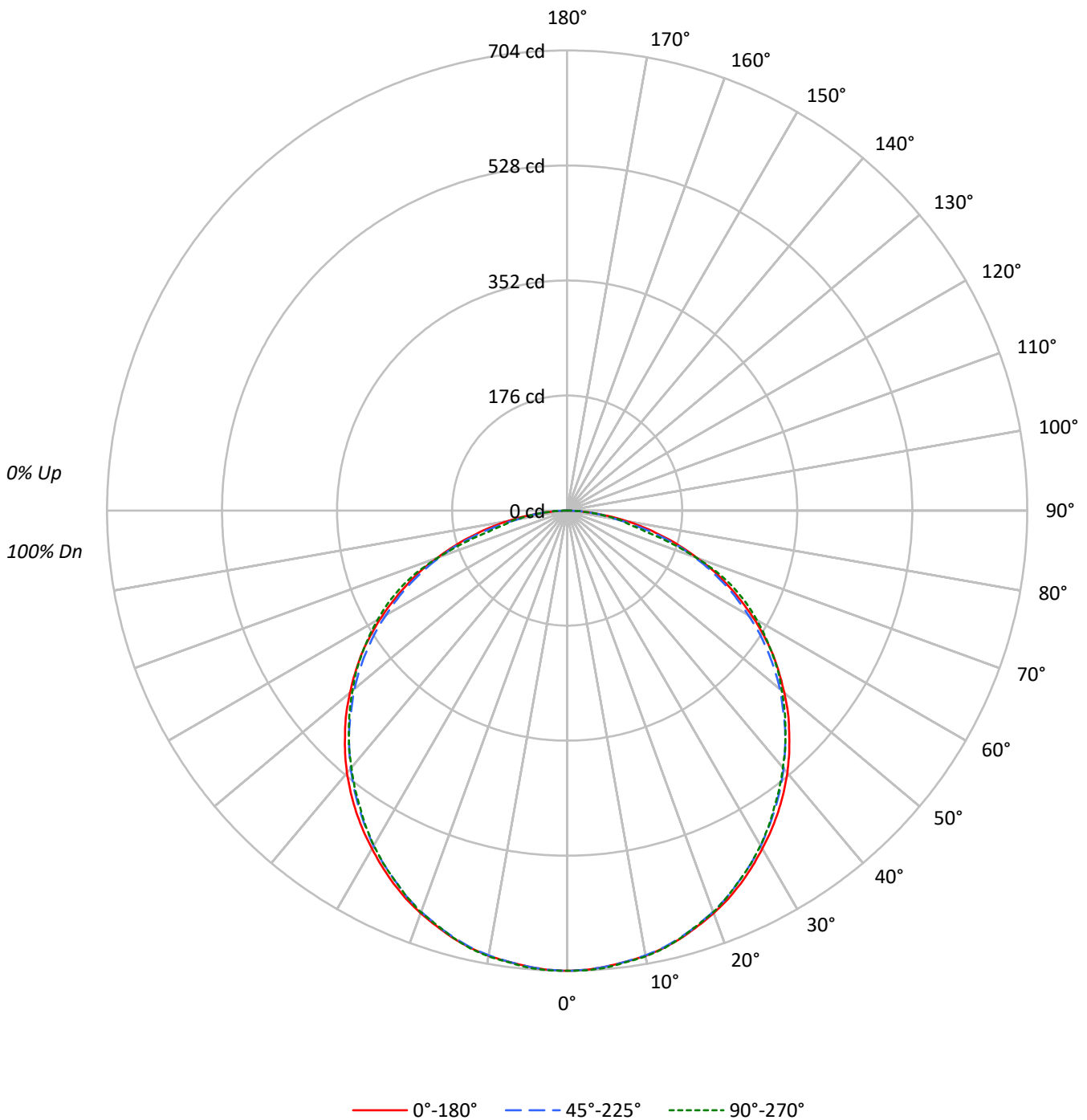
Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	45	57	50	45	55	49	44	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°	1894	1894	1894
5°	1891	1891	1895
10°	1890	1888	1892
15°	1886	1881	1884
20°	1877	1870	1873
25°	1868	1854	1854
30°	1856	1840	1838
35°	1849	1824	1816
40°	1841	1809	1803
45°	1829	1794	1798
50°	1816	1778	1795
55°	1804	1757	1800
60°	1773	1724	1804
65°	1731	1689	1799
70°	1661	1622	1655
75°	1572	1486	1289
80°	1426	1196	1272
85°	1041	1065	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.2
10°-20°	190.6	9.3
20°-30°	288.3	14.0
30°-40°	348.2	16.9
40°-50°	365.5	17.8
50°-60°	338.6	16.5
60°-70°	267.3	13.0
70°-80°	149.9	7.3
80°-90°	40.5	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°	545.4	26.5
0°-40°	893.6	43.5
0°-60°	1597.7	77.7
0°-90°	2055.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2055.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	700	699	700	701	702	67
15°	677	675	675	675	676	191
25°	629	627	624	623	624	290
35°	563	560	555	552	553	352
45°	481	476	472	469	472	371
55°	384	380	375	378	384	343
65°	272	269	265	274	283	269
75°	151	149	143	129	124	160
85°	34	34	34	34	34	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.0	704.0	704.0	704.0	704.0
2.5°	703.2	702.4	703.2	703.2	704.0
5°	699.9	699.1	699.9	700.7	701.6
7.5°	695.8	695.0	695.8	696.6	696.6
10°	691.7	690.1	690.9	691.7	692.5
12.5°	685.1	684.3	684.3	684.3	685.9
15°	676.9	675.3	675.3	675.3	676.1
17.5°	666.2	665.4	664.6	664.6	664.6
20°	655.5	653.9	653.1	652.3	653.9
22.5°	643.2	641.6	639.9	638.3	639.9
25°	629.3	626.8	624.3	622.7	624.3
27.5°	613.7	612.0	608.7	606.3	608.7
30°	597.2	594.8	592.3	589.8	591.5
32.5°	580.8	578.3	574.2	570.9	573.4
35°	562.7	560.3	555.3	552.0	552.9
37.5°	543.8	540.5	535.6	532.3	534.0
40°	524.1	520.8	515.1	511.0	513.4
42.5°	502.8	499.5	493.7	491.3	493.7
45°	480.6	476.5	471.5	469.1	472.4
47.5°	458.4	455.1	447.7	447.7	451.0
50°	433.7	430.5	424.7	424.7	428.8
52.5°	409.1	405.0	400.1	401.7	407.5
55°	384.5	380.4	374.6	377.9	383.6
57.5°	357.3	354.1	348.3	353.2	359.8
60°	329.4	325.3	320.4	327.0	335.2
62.5°	300.7	297.4	293.3	301.5	310.5
65°	271.9	268.6	265.3	274.4	282.6
67.5°	244.0	239.9	236.6	244.8	250.6
70°	211.1	208.7	206.2	207.8	210.3
72.5°	181.5	179.1	176.6	170.0	167.6
75°	151.2	148.7	142.9	129.0	124.0
77.5°	121.6	119.1	108.4	96.1	96.9
80°	92.0	89.5	77.2	79.7	82.1
82.5°	63.3	60.0	57.5	56.7	56.7
85°	33.7	33.7	34.5	33.7	33.7
87.5°	14.0	14.8	14.8	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)