

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: P393275

Luminaire Tested: **22EN-LD2-25-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393275
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-L93050-W2A-1-U (3000K)
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: 2056.0 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

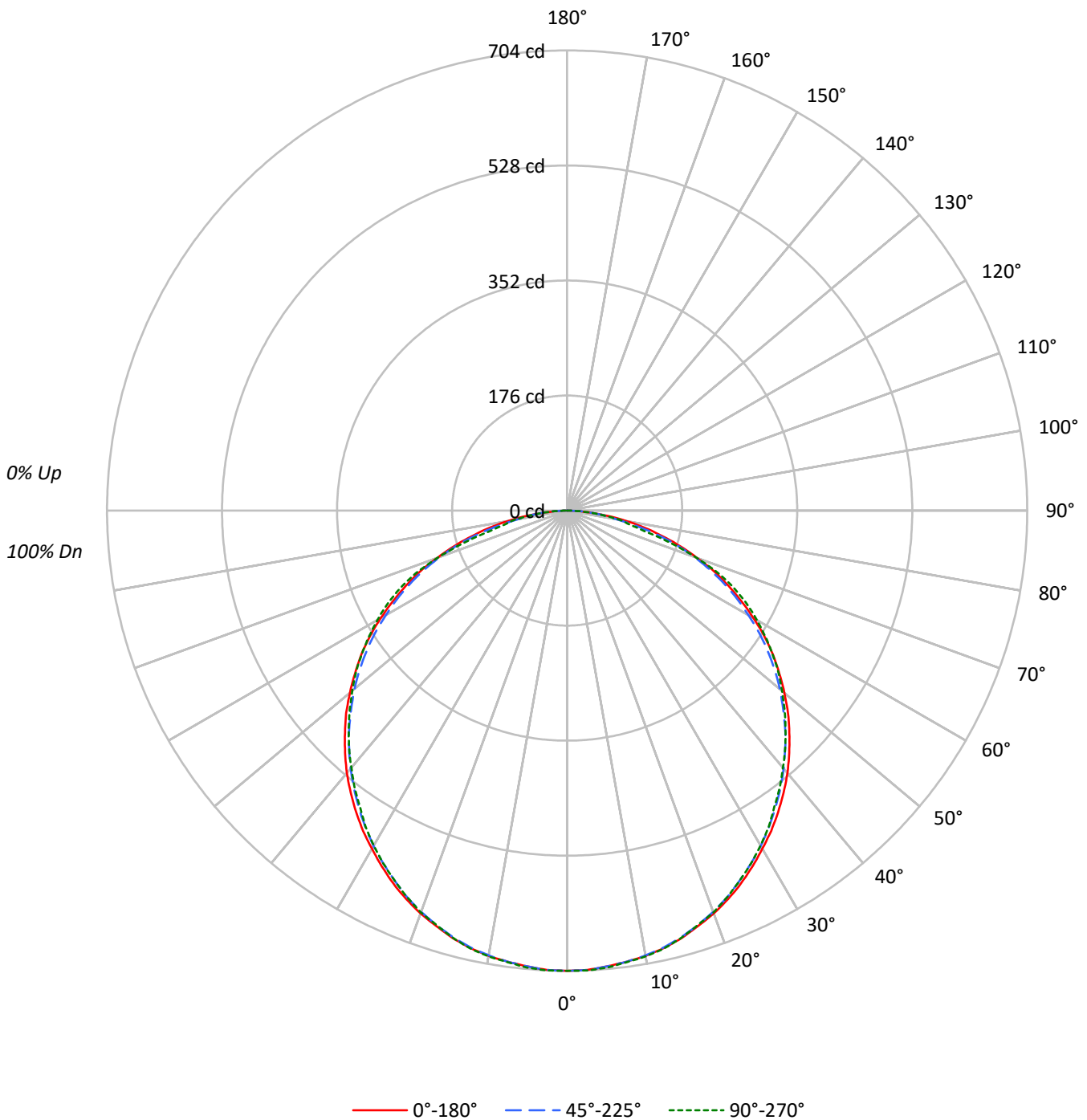
Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1895	1895	1895
5°	1891	1891	1896
10°	1891	1888	1893
15°	1886	1882	1884
20°	1878	1871	1873
25°	1869	1854	1854
30°	1856	1841	1839
35°	1849	1825	1817
40°	1842	1810	1804
45°	1829	1795	1798
50°	1816	1778	1796
55°	1804	1758	1801
60°	1773	1725	1805
65°	1732	1690	1800
70°	1662	1623	1655
75°	1572	1487	1290
80°	1426	1196	1274
85°	1041	1065	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.2
10°-20°	190.7	9.3
20°-30°	288.3	14.0
30°-40°	348.3	16.9
40°-50°	365.6	17.8
50°-60°	338.7	16.5
60°-70°	267.4	13.0
70°-80°	150.0	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°	545.6	26.5
0°-40°	893.9	43.5
0°-60°	1598.1	77.7
0°-90°	2056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2056.0	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	676	676	676	676	191
25°	630	627	624	623	624	290
35°	563	560	556	552	553	352
45°	481	477	472	469	472	371
55°	385	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°	704.2	704.2	704.2	704.2	704.2
2.5°	703.4	702.6	703.4	703.4	704.2
5°	700.1	699.3	700.1	700.9	701.8
7.5°	696.0	695.2	696.0	696.8	696.8
10°	691.9	690.3	691.1	691.9	692.7
12.5°	685.3	684.5	684.5	684.5	686.2
15°	677.1	675.5	675.5	675.5	676.3
17.5°	666.4	665.6	664.8	664.8	664.8
20°	655.8	654.1	653.3	652.5	654.1
22.5°	643.4	641.8	640.1	638.5	640.1
25°	629.5	627.0	624.5	622.9	624.5
27.5°	613.8	612.2	608.9	606.4	608.9
30°	597.4	594.9	592.5	590.0	591.7
32.5°	581.0	578.5	574.4	571.1	573.6
35°	562.9	560.4	555.5	552.2	553.0
37.5°	544.0	540.7	535.8	532.5	534.1
40°	524.3	521.0	515.2	511.1	513.6
42.5°	502.9	499.6	493.9	491.4	493.9
45°	480.7	476.6	471.7	469.2	472.5
47.5°	458.5	455.2	447.9	447.9	451.1
50°	433.9	430.6	424.8	424.8	429.0
52.5°	409.2	405.1	400.2	401.8	407.6
55°	384.6	380.5	374.7	378.0	383.8
57.5°	357.5	354.2	348.4	353.3	359.9
60°	329.5	325.4	320.5	327.1	335.3
62.5°	300.8	297.5	293.4	301.6	310.6
65°	272.0	268.7	265.4	274.5	282.7
67.5°	244.1	239.9	236.7	244.9	250.6
70°	211.2	208.7	206.3	207.9	210.4
72.5°	181.6	179.1	176.7	170.1	167.6
75°	151.2	148.7	143.0	129.0	124.1
77.5°	121.6	119.2	108.5	96.1	97.0
80°	92.0	89.6	77.2	79.7	82.2
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)