

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: P393276

Luminaire Tested: **22EN-LD2-25-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393276
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 (3500K)
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: 2104.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

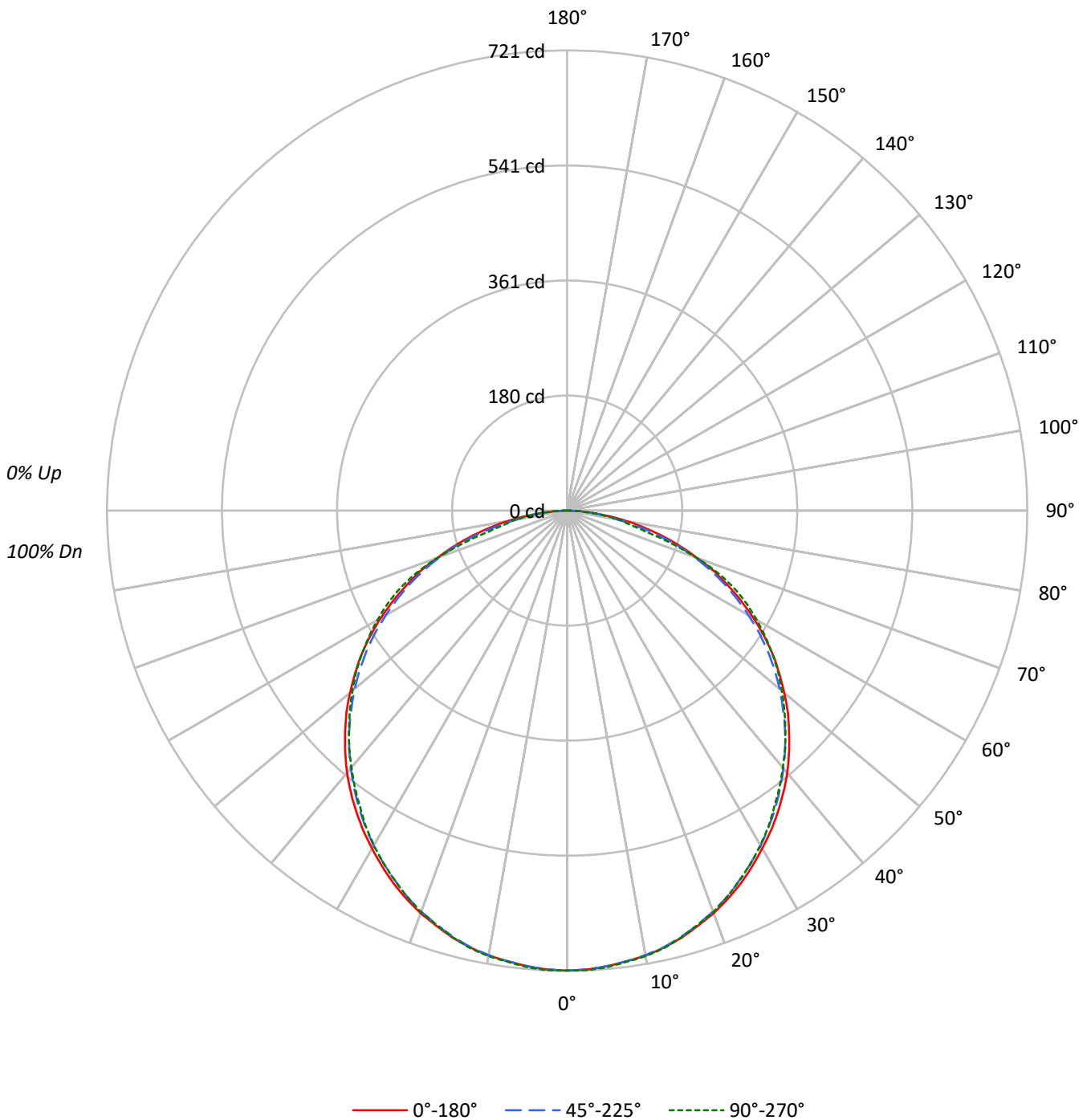
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1939	1939	1939
5°	1935	1935	1940
10°	1935	1932	1937
15°	1930	1926	1928
20°	1922	1914	1917
25°	1913	1898	1898
30°	1900	1884	1881
35°	1892	1868	1859
40°	1885	1852	1846
45°	1872	1837	1840
50°	1859	1820	1838
55°	1847	1799	1842
60°	1815	1765	1847
65°	1772	1729	1842
70°	1700	1661	1694
75°	1608	1521	1320
80°	1460	1224	1303
85°	1065	1090	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	3.2
10°-20°	195.1	9.3
20°-30°	295.1	14.0
30°-40°	356.4	16.9
40°-50°	374.1	17.8
50°-60°	346.6	16.5
60°-70°	273.7	13.0
70°-80°	153.5	7.3
80°-90°	41.4	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°	558.3	26.5
0°-40°	914.7	43.5
0°-60°	1635.5	77.7
0°-90°	2104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	716	716	716	717	718	68
15°	693	691	691	691	692	195
25°	644	642	639	637	639	297
35°	576	574	568	565	566	360
45°	492	488	483	480	484	380
55°	394	389	384	387	393	351
65°	278	275	272	281	289	275
75°	155	152	146	132	127	164
85°	34	34	35	34	34	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	720.7	720.7	720.7	720.7	720.7
2.5°	719.8	719.0	719.8	719.8	720.7
5°	716.5	715.6	716.5	717.3	718.2
7.5°	712.3	711.4	712.3	713.1	713.1
10°	708.1	706.4	707.2	708.1	708.9
12.5°	701.3	700.5	700.5	700.5	702.2
15°	692.9	691.2	691.2	691.2	692.1
17.5°	682.0	681.2	680.3	680.3	680.3
20°	671.1	669.4	668.5	667.7	669.4
22.5°	658.4	656.8	655.1	653.4	655.1
25°	644.2	641.6	639.1	637.4	639.1
27.5°	628.2	626.5	623.1	620.6	623.1
30°	611.4	608.8	606.3	603.8	605.5
32.5°	594.5	592.0	587.8	584.4	587.0
35°	576.0	573.5	568.5	565.1	565.9
37.5°	556.7	553.3	548.3	544.9	546.6
40°	536.5	533.1	527.3	523.1	525.6
42.5°	514.6	511.3	505.4	502.9	505.4
45°	491.9	487.7	482.7	480.2	483.5
47.5°	469.2	465.9	458.3	458.3	461.7
50°	444.0	440.6	434.8	434.8	439.0
52.5°	418.8	414.6	409.5	411.2	417.1
55°	393.6	389.3	383.5	386.8	392.7
57.5°	365.8	362.4	356.6	361.6	368.3
60°	337.2	333.0	328.0	334.7	343.1
62.5°	307.8	304.4	300.2	308.6	317.9
65°	278.3	275.0	271.6	280.9	289.3
67.5°	249.8	245.6	242.2	250.6	256.5
70°	216.1	213.6	211.1	212.8	215.3
72.5°	185.8	183.3	180.8	174.1	171.5
75°	154.7	152.2	146.3	132.0	127.0
77.5°	124.5	121.9	111.0	98.4	99.2
80°	94.2	91.7	79.0	81.6	84.1
82.5°	64.8	61.4	58.9	58.0	58.0
85°	34.5	34.5	35.3	34.5	34.5
87.5°	14.3	15.1	15.1	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)