

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: P393278

Luminaire Tested: **22EN-LD2-25-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393278
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 (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: 2197.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

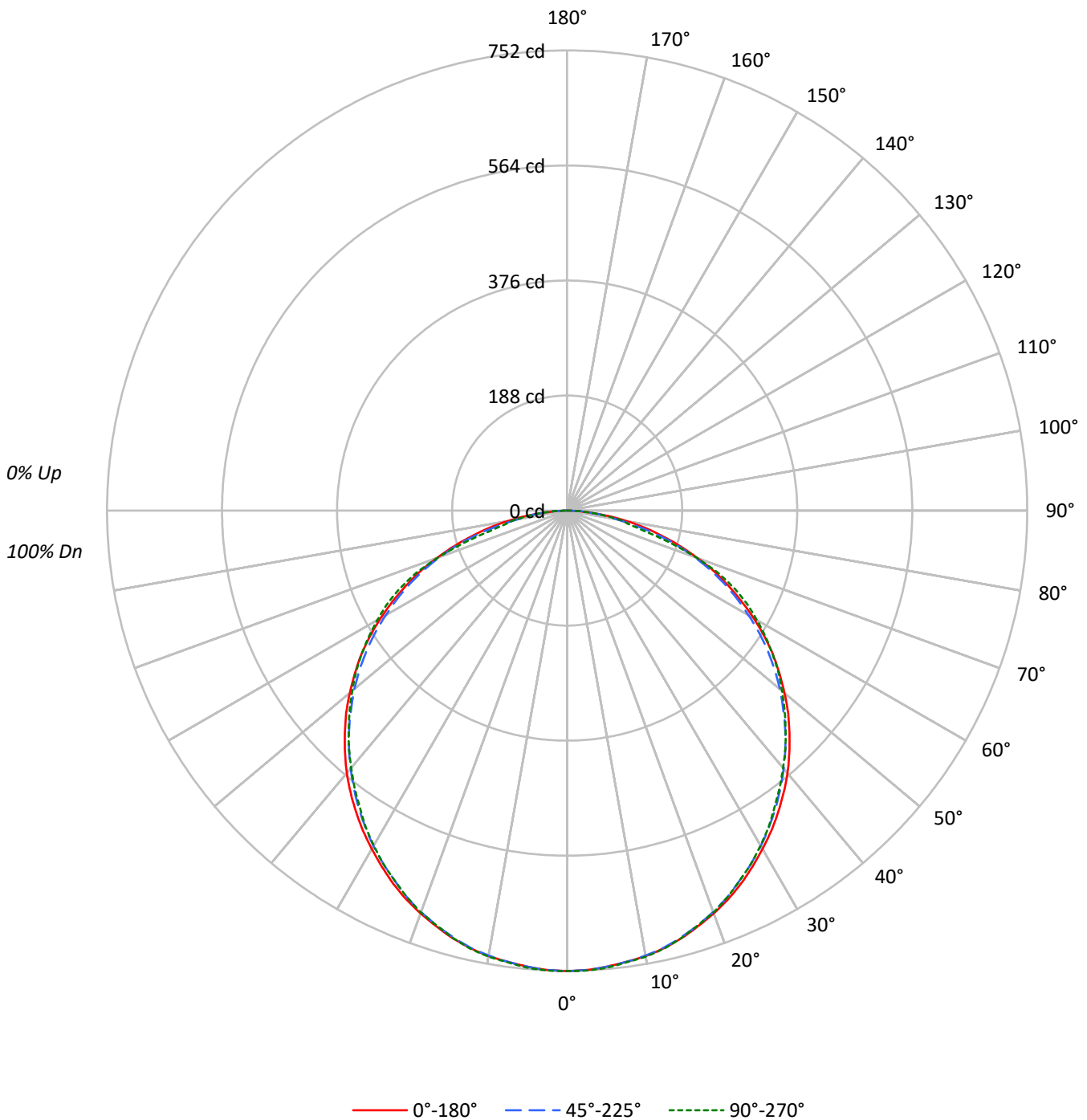
Input Watts (W): 17.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2025	2025	2025
5°	2021	2021	2026
10°	2020	2018	2023
15°	2016	2011	2013
20°	2007	1999	2002
25°	1997	1981	1981
30°	1984	1967	1964
35°	1976	1950	1941
40°	1968	1934	1928
45°	1955	1918	1921
50°	1941	1901	1919
55°	1928	1879	1924
60°	1895	1843	1928
65°	1850	1806	1924
70°	1776	1734	1769
75°	1680	1589	1379
80°	1523	1278	1361
85°	1112	1139	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.2
10°-20°	203.7	9.3
20°-30°	308.1	14.0
30°-40°	372.2	16.9
40°-50°	390.7	17.8
50°-60°	361.9	16.5
60°-70°	285.8	13.0
70°-80°	160.2	7.3
80°-90°	43.3	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°	583.0	26.5
0°-40°	955.2	43.5
0°-60°	1707.8	77.7
0°-90°	2197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	748	747	748	749	750	71
15°	724	722	722	722	723	204
25°	673	670	667	666	667	310
35°	602	599	594	590	591	376
45°	514	509	504	501	505	396
55°	411	407	400	404	410	366
65°	291	287	284	293	302	287
75°	162	159	153	138	133	171
85°	36	36	37	36	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.5	752.5	752.5	752.5	752.5
2.5°	751.6	750.8	751.6	751.6	752.5
5°	748.1	747.2	748.1	749.0	749.9
7.5°	743.7	742.9	743.7	744.6	744.6
10°	739.3	737.6	738.5	739.3	740.2
12.5°	732.3	731.4	731.4	731.4	733.2
15°	723.5	721.8	721.8	721.8	722.7
17.5°	712.1	711.2	710.4	710.4	710.4
20°	700.7	699.0	698.1	697.2	699.0
22.5°	687.5	685.8	684.0	682.3	684.0
25°	672.6	670.0	667.3	665.6	667.3
27.5°	655.9	654.2	650.7	648.0	650.7
30°	638.4	635.7	633.1	630.5	632.2
32.5°	620.8	618.2	613.8	610.3	612.9
35°	601.5	598.9	593.6	590.1	590.9
37.5°	581.3	577.8	572.5	569.0	570.8
40°	560.2	556.7	550.6	546.2	548.8
42.5°	537.4	533.9	527.7	525.1	527.7
45°	513.7	509.3	504.0	501.4	504.9
47.5°	490.0	486.5	478.6	478.6	482.1
50°	463.6	460.1	454.0	454.0	458.4
52.5°	437.3	432.9	427.6	429.4	435.5
55°	410.9	406.6	400.4	403.9	410.1
57.5°	382.0	378.5	372.3	377.6	384.6
60°	352.1	347.7	342.5	349.5	358.3
62.5°	321.4	317.9	313.5	322.3	331.9
65°	290.6	287.1	283.6	293.3	302.1
67.5°	260.8	256.4	252.9	261.7	267.8
70°	225.7	223.0	220.4	222.2	224.8
72.5°	194.1	191.4	188.8	181.8	179.1
75°	161.6	158.9	152.8	137.9	132.6
77.5°	130.0	127.3	115.9	102.7	103.6
80°	98.3	95.7	82.5	85.2	87.8
82.5°	67.6	64.1	61.5	60.6	60.6
85°	36.0	36.0	36.9	36.0	36.0
87.5°	14.9	15.8	15.8	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)