

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: P393263

Luminaire Tested: **22EN-LD2-25-UNV-L83050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393263
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-L83050-W2A-1-U (5000K)
Description: 2X2 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2549.2 lumens
Efficiency: N/A
Efficacy: 141.6 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

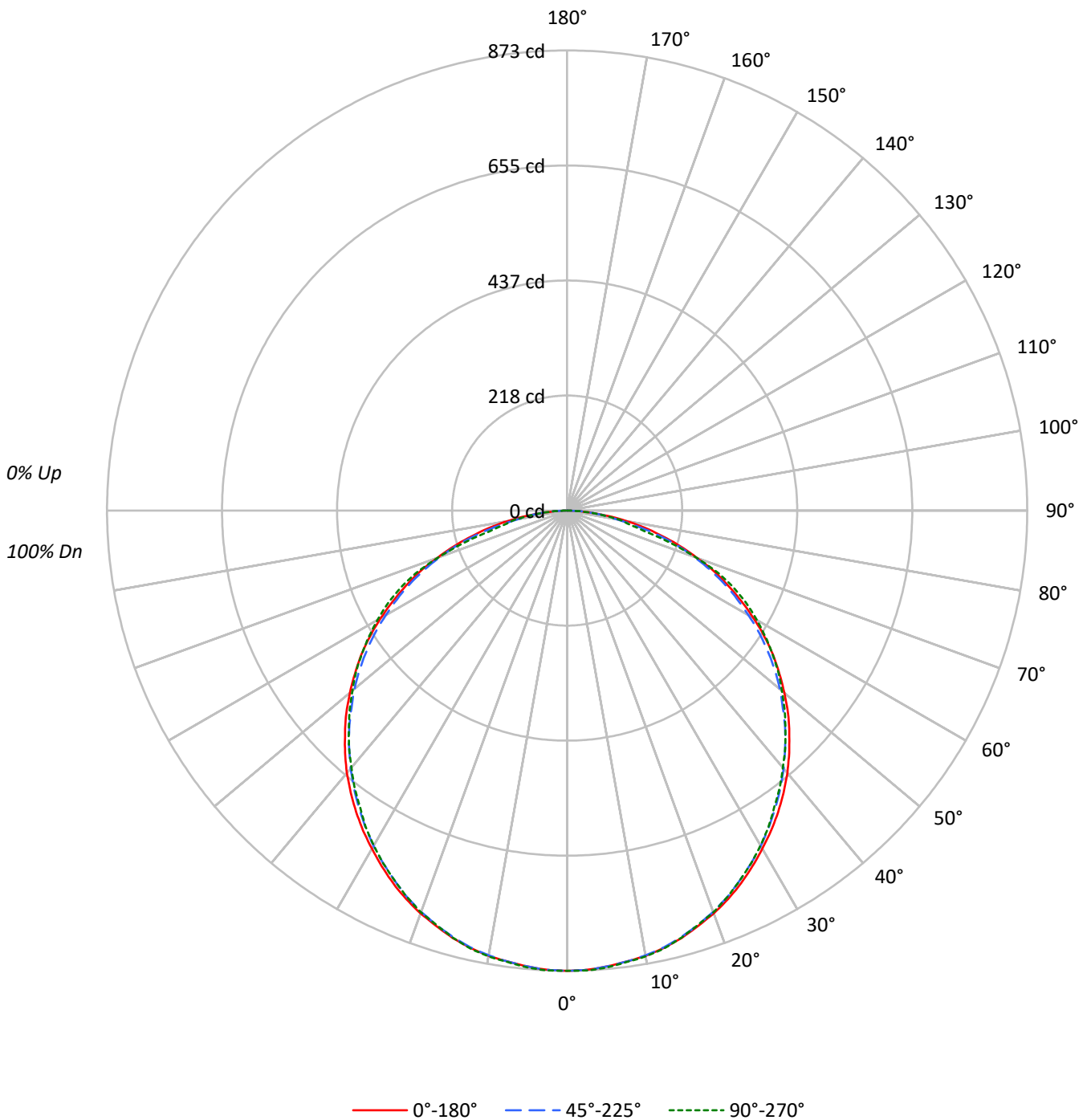
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2350	2350	2350
5°	2345	2345	2350
10°	2344	2341	2347
15°	2339	2333	2336
20°	2328	2320	2322
25°	2317	2299	2299
30°	2302	2283	2279
35°	2293	2263	2253
40°	2283	2244	2237
45°	2268	2226	2229
50°	2252	2205	2226
55°	2237	2180	2232
60°	2199	2139	2237
65°	2147	2096	2232
70°	2060	2012	2052
75°	1949	1843	1599
80°	1768	1485	1579
85°	1291	1321	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	3.2
10°-20°	236.4	9.3
20°-30°	357.5	14.0
30°-40°	431.8	16.9
40°-50°	453.3	17.8
50°-60°	420.0	16.5
60°-70°	331.6	13.0
70°-80°	185.9	7.3
80°-90°	50.2	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°	676.5	26.5
0°-40°	1108.3	43.5
0°-60°	1981.5	77.7
0°-90°	2549.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	868	867	868	869	870	83
15°	840	838	838	838	838	237
25°	780	777	774	772	774	360
35°	698	695	689	685	686	437
45°	596	591	585	582	586	460
55°	477	472	465	469	476	425
65°	337	333	329	340	350	334
75°	188	184	177	160	154	198
85°	42	42	43	42	42	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	873.2	873.2	873.2	873.2	873.2
2.5°	872.1	871.1	872.1	872.1	873.2
5°	868.1	867.1	868.1	869.1	870.1
7.5°	863.0	862.0	863.0	864.0	864.0
10°	857.9	855.8	856.9	857.9	858.9
12.5°	849.7	848.7	848.7	848.7	850.8
15°	839.5	837.5	837.5	837.5	838.5
17.5°	826.3	825.3	824.3	824.3	824.3
20°	813.1	811.0	810.0	809.0	811.0
22.5°	797.8	795.7	793.7	791.7	793.7
25°	780.5	777.4	774.3	772.3	774.3
27.5°	761.1	759.1	755.0	751.9	755.0
30°	740.7	737.7	734.6	731.5	733.6
32.5°	720.3	717.3	712.2	708.1	711.2
35°	697.9	694.9	688.8	684.7	685.7
37.5°	674.5	670.4	664.3	660.2	662.3
40°	650.0	646.0	638.8	633.7	636.8
42.5°	623.5	619.5	612.3	609.3	612.3
45°	596.0	590.9	584.8	581.8	585.8
47.5°	568.5	564.5	555.3	555.3	559.4
50°	538.0	533.9	526.8	526.8	531.8
52.5°	507.4	502.3	496.2	498.2	505.4
55°	476.8	471.7	464.6	468.7	475.8
57.5°	443.2	439.1	432.0	438.1	446.3
60°	408.6	403.5	397.4	405.5	415.7
62.5°	372.9	368.8	363.7	373.9	385.1
65°	337.2	333.2	329.1	340.3	350.5
67.5°	302.6	297.5	293.4	303.6	310.8
70°	261.8	258.8	255.7	257.8	260.8
72.5°	225.2	222.1	219.1	210.9	207.8
75°	187.5	184.4	177.3	160.0	153.8
77.5°	150.8	147.7	134.5	119.2	120.2
80°	114.1	111.1	95.8	98.8	101.9
82.5°	78.5	74.4	71.3	70.3	70.3
85°	41.8	41.8	42.8	41.8	41.8
87.5°	17.3	18.3	18.3	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)