

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: P393261

Luminaire Tested: **22EN-LD2-25-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393261
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 (4000K)
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: 2512.7 lumens
Efficiency: N/A
Efficacy: 138.1 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

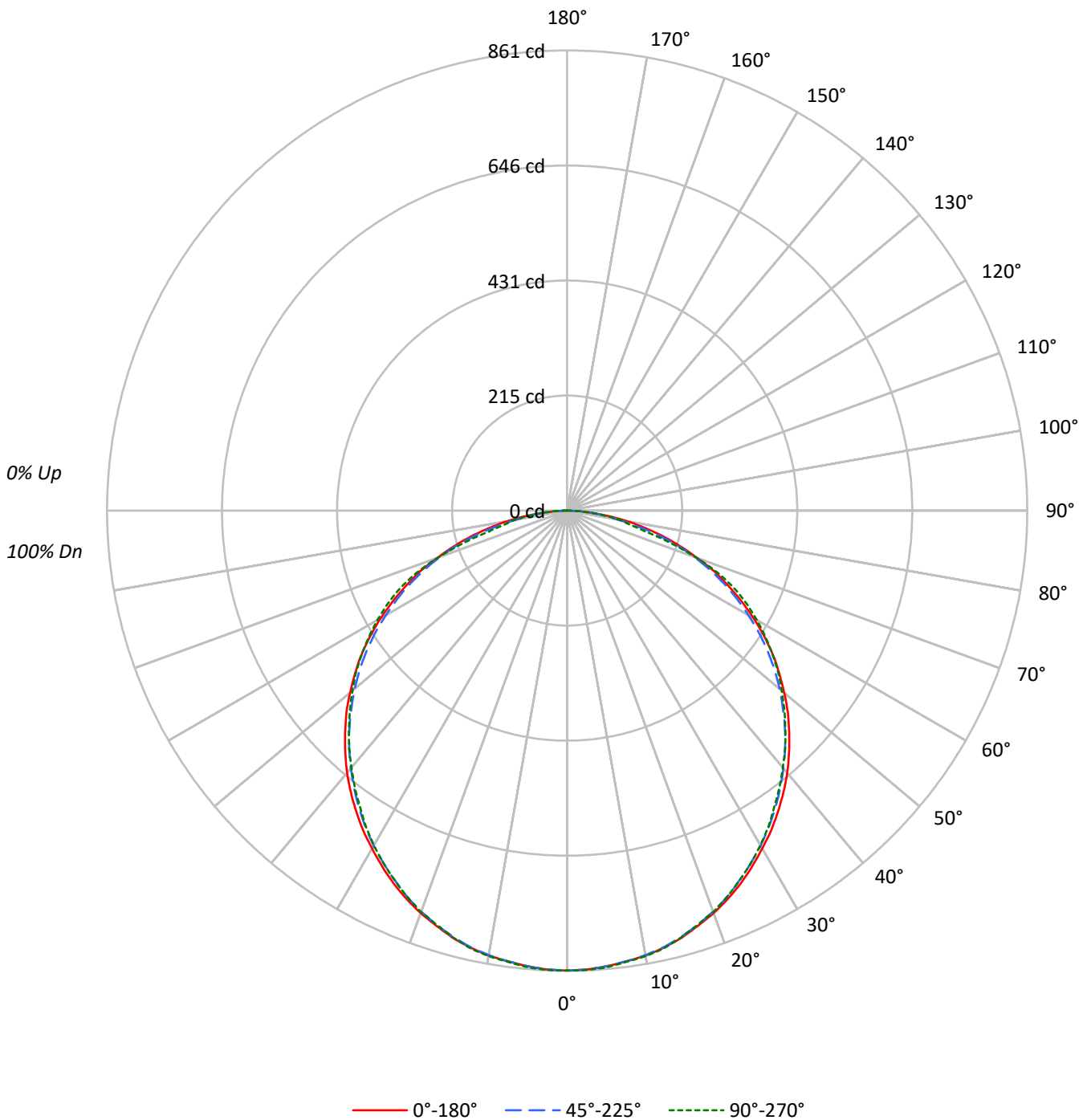
Input Watts (W): 18.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393261

CATALOG NUMBER: 22EN-LD2-25-UNV-L83050-W2A-1-U (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393261

CATALOG NUMBER: 22EN-LD2-25-UNV-L83050-W2A-1-U (4000K)

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°	2316	2316	2316
5°	2311	2311	2317
10°	2311	2308	2313
15°	2305	2300	2303
20°	2295	2286	2289
25°	2284	2266	2266
30°	2269	2250	2247
35°	2260	2230	2220
40°	2251	2212	2205
45°	2236	2194	2197
50°	2220	2174	2195
55°	2205	2148	2200
60°	2167	2108	2205
65°	2117	2066	2200
70°	2031	1983	2023
75°	1921	1816	1576
80°	1743	1463	1556
85°	1272	1303	1272



TEST NUMBER: P393261

CATALOG NUMBER: 22EN-LD2-25-UNV-L83050-W2A-1-U (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.2
10°-20°	233.0	9.3
20°-30°	352.4	14.0
30°-40°	425.7	16.9
40°-50°	446.8	17.8
50°-60°	413.9	16.5
60°-70°	326.8	13.0
70°-80°	183.3	7.3
80°-90°	49.5	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°	666.7	26.5
0°-40°	1092.4	43.5
0°-60°	1953.1	77.7
0°-90°	2512.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	856	855	856	857	858	81
15°	828	826	826	826	826	233
25°	769	766	763	761	763	354
35°	688	685	679	675	676	430
45°	588	582	576	573	577	453
55°	470	465	458	462	469	419
65°	332	328	324	335	346	329
75°	185	182	175	158	152	195
85°	41	41	42	41	41	52
90°	0	0	0	0	0	



TEST NUMBER: P393261

CATALOG NUMBER: 22EN-LD2-25-UNV-L83050-W2A-1-U (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.6	860.6	860.6	860.6	860.6
2.5°	859.6	858.6	859.6	859.6	860.6
5°	855.6	854.6	855.6	856.6	857.6
7.5°	850.6	849.6	850.6	851.6	851.6
10°	845.6	843.6	844.6	845.6	846.6
12.5°	837.5	836.5	836.5	836.5	838.6
15°	827.5	825.5	825.5	825.5	826.5
17.5°	814.4	813.4	812.4	812.4	812.4
20°	801.4	799.4	798.4	797.4	799.4
22.5°	786.3	784.3	782.3	780.3	782.3
25°	769.3	766.2	763.2	761.2	763.2
27.5°	750.2	748.2	744.2	741.1	744.2
30°	730.1	727.1	724.1	721.1	723.1
32.5°	710.0	707.0	702.0	698.0	701.0
35°	687.9	684.9	678.9	674.9	675.9
37.5°	664.8	660.8	654.8	650.8	652.8
40°	640.7	636.7	629.7	624.6	627.7
42.5°	614.6	610.6	603.6	600.5	603.6
45°	587.5	582.5	576.4	573.4	577.4
47.5°	560.4	556.4	547.3	547.3	551.3
50°	530.2	526.2	519.2	519.2	524.2
52.5°	500.1	495.1	489.1	491.1	498.1
55°	470.0	465.0	457.9	462.0	469.0
57.5°	436.8	432.8	425.8	431.8	439.9
60°	402.7	397.7	391.7	399.7	409.7
62.5°	367.6	363.5	358.5	368.6	379.6
65°	332.4	328.4	324.4	335.4	345.5
67.5°	298.3	293.2	289.2	299.3	306.3
70°	258.1	255.1	252.1	254.1	257.1
72.5°	221.9	218.9	215.9	207.9	204.9
75°	184.8	181.8	174.7	157.7	151.6
77.5°	148.6	145.6	132.6	117.5	118.5
80°	112.5	109.5	94.4	97.4	100.4
82.5°	77.3	73.3	70.3	69.3	69.3
85°	41.2	41.2	42.2	41.2	41.2
87.5°	17.1	18.1	18.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)