

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: P393258

Luminaire Tested: **22EN-LD2-25-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393258
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 (2700K)
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: 2414.0 lumens
Efficiency: N/A
Efficacy: 134.9 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

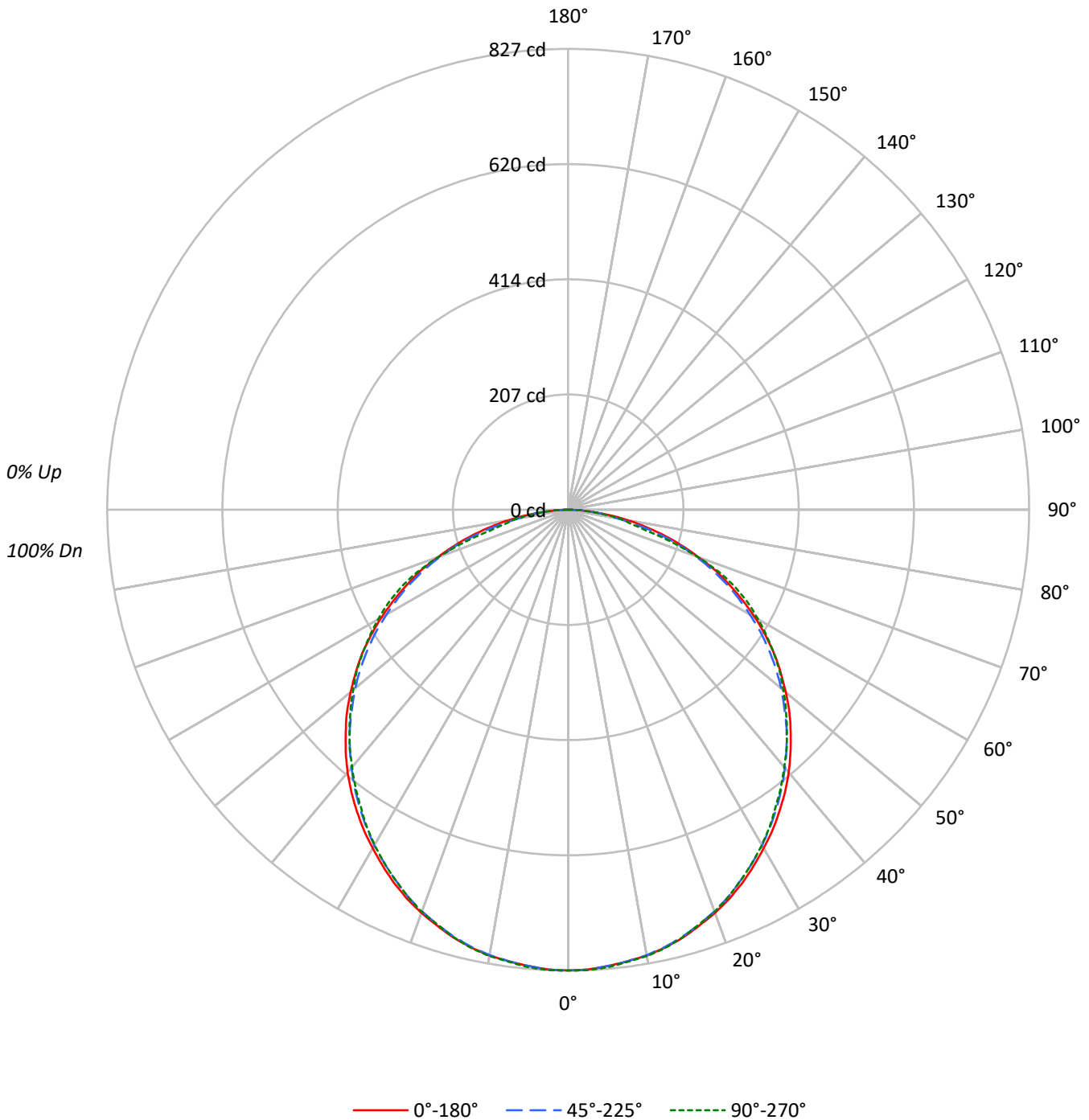
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2225	2225	2225
5°	2220	2220	2226
10°	2220	2217	2222
15°	2215	2210	2212
20°	2205	2196	2199
25°	2195	2177	2177
30°	2179	2161	2159
35°	2171	2143	2133
40°	2162	2125	2118
45°	2148	2108	2111
50°	2133	2088	2108
55°	2118	2064	2114
60°	2082	2025	2118
65°	2034	1984	2113
70°	1951	1906	1943
75°	1845	1746	1515
80°	1675	1406	1495
85°	1223	1250	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	3.2
10°-20°	223.9	9.3
20°-30°	338.5	14.0
30°-40°	408.9	16.9
40°-50°	429.2	17.8
50°-60°	397.7	16.5
60°-70°	314.0	13.0
70°-80°	176.1	7.3
80°-90°	47.6	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°	640.6	26.5
0°-40°	1049.5	43.5
0°-60°	1876.4	77.7
0°-90°	2414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	822	821	822	823	824	78
15°	795	793	793	793	794	224
25°	739	736	733	731	733	341
35°	661	658	652	648	649	414
45°	564	560	554	551	555	436
55°	452	447	440	444	451	403
65°	319	316	312	322	332	316
75°	178	175	168	152	146	188
85°	40	40	40	40	40	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.9	826.9	826.9	826.9	826.9
2.5°	825.9	824.9	825.9	825.9	826.9
5°	822.0	821.1	822.0	823.0	824.0
7.5°	817.2	816.2	817.2	818.2	818.2
10°	812.4	810.5	811.4	812.4	813.3
12.5°	804.7	803.7	803.7	803.7	805.6
15°	795.0	793.1	793.1	793.1	794.0
17.5°	782.5	781.5	780.5	780.5	780.5
20°	769.9	768.0	767.0	766.1	768.0
22.5°	755.5	753.5	751.6	749.7	751.6
25°	739.1	736.2	733.3	731.3	733.3
27.5°	720.7	718.8	714.9	712.0	714.9
30°	701.4	698.5	695.6	692.7	694.7
32.5°	682.1	679.2	674.4	670.6	673.4
35°	660.9	658.0	652.2	648.4	649.3
37.5°	638.7	634.9	629.1	625.2	627.1
40°	615.6	611.7	604.9	600.1	603.0
42.5°	590.5	586.6	579.9	577.0	579.9
45°	564.4	559.6	553.8	550.9	554.8
47.5°	538.4	534.5	525.8	525.8	529.7
50°	509.4	505.6	498.8	498.8	503.6
52.5°	480.5	475.7	469.9	471.8	478.6
55°	451.5	446.7	440.0	443.8	450.6
57.5°	419.7	415.8	409.1	414.9	422.6
60°	386.9	382.1	376.3	384.0	393.6
62.5°	353.1	349.3	344.4	354.1	364.7
65°	319.4	315.5	311.6	322.3	331.9
67.5°	286.6	281.7	277.9	287.5	294.3
70°	248.0	245.1	242.2	244.1	247.0
72.5°	213.2	210.3	207.4	199.7	196.8
75°	177.5	174.6	167.9	151.5	145.7
77.5°	142.8	139.9	127.4	112.9	113.8
80°	108.1	105.2	90.7	93.6	96.5
82.5°	74.3	70.4	67.5	66.6	66.6
85°	39.6	39.6	40.5	39.6	39.6
87.5°	16.4	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)