

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: P393259

Luminaire Tested: **22EN-LD2-25-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393259
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 (3000K)
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: 2461.8 lumens
Efficiency: N/A
Efficacy: 134.5 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

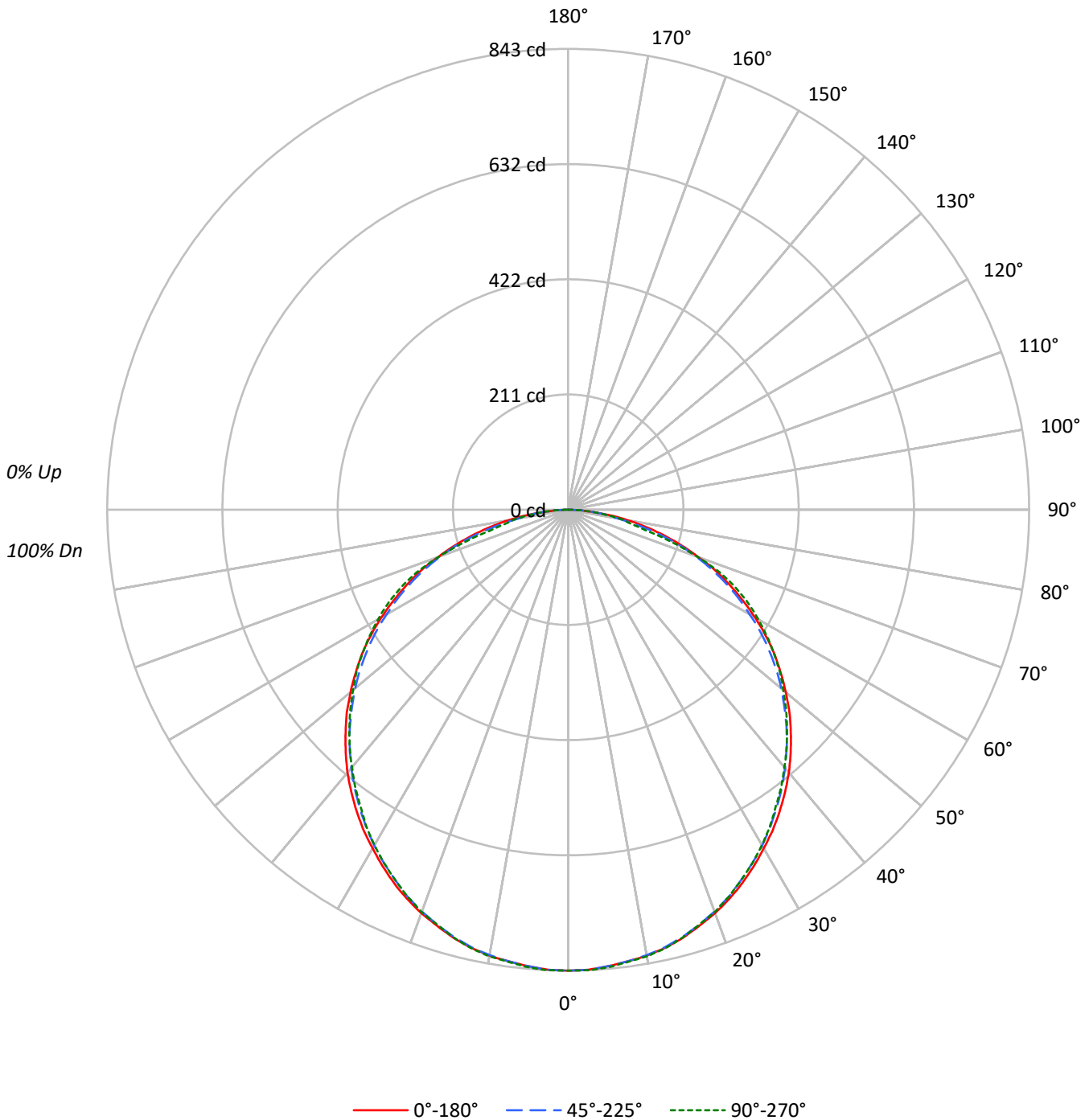
Input Watts (W): 18.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2269	2269	2269
5°	2264	2264	2270
10°	2264	2261	2267
15°	2259	2253	2256
20°	2249	2240	2243
25°	2238	2220	2220
30°	2223	2204	2201
35°	2214	2185	2175
40°	2205	2167	2160
45°	2191	2149	2153
50°	2175	2130	2150
55°	2160	2105	2156
60°	2124	2065	2161
65°	2074	2024	2155
70°	1990	1943	1982
75°	1882	1780	1545
80°	1708	1433	1525
85°	1244	1275	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	3.2
10°-20°	228.3	9.3
20°-30°	345.3	14.0
30°-40°	417.0	16.9
40°-50°	437.7	17.8
50°-60°	405.6	16.5
60°-70°	320.2	13.0
70°-80°	179.6	7.3
80°-90°	48.5	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°	653.3	26.5
0°-40°	1070.3	43.5
0°-60°	1913.6	77.7
0°-90°	2461.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	838	837	838	839	840	80
15°	811	809	809	809	810	229
25°	754	751	748	746	748	347
35°	674	671	665	661	662	422
45°	576	571	565	562	566	444
55°	460	456	449	453	460	411
65°	326	322	318	329	338	322
75°	181	178	171	154	149	191
85°	40	40	41	40	40	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.2	843.2	843.2	843.2	843.2
2.5°	842.3	841.3	842.3	842.3	843.2
5°	838.3	837.3	838.3	839.3	840.3
7.5°	833.4	832.4	833.4	834.4	834.4
10°	828.5	826.5	827.5	828.5	829.5
12.5°	820.6	819.6	819.6	819.6	821.6
15°	810.8	808.8	808.8	808.8	809.8
17.5°	798.0	797.0	796.0	796.0	796.0
20°	785.2	783.2	782.2	781.3	783.2
22.5°	770.4	768.5	766.5	764.5	766.5
25°	753.7	750.8	747.8	745.8	747.8
27.5°	735.0	733.0	729.1	726.2	729.1
30°	715.3	712.4	709.4	706.5	708.4
32.5°	695.7	692.7	687.8	683.8	686.8
35°	674.0	671.1	665.1	661.2	662.2
37.5°	651.4	647.4	641.5	637.6	639.6
40°	627.8	623.8	616.9	612.0	615.0
42.5°	602.2	598.2	591.4	588.4	591.4
45°	575.6	570.7	564.8	561.8	565.8
47.5°	549.0	545.1	536.3	536.3	540.2
50°	519.5	515.6	508.7	508.7	513.6
52.5°	490.0	485.1	479.2	481.2	488.0
55°	460.5	455.6	448.7	452.6	459.5
57.5°	428.0	424.1	417.2	423.1	431.0
60°	394.6	389.6	383.7	391.6	401.5
62.5°	360.1	356.2	351.3	361.1	371.9
65°	325.7	321.8	317.8	328.6	338.5
67.5°	292.2	287.3	283.4	293.2	300.1
70°	252.9	249.9	247.0	248.9	251.9
72.5°	217.5	214.5	211.5	203.7	200.7
75°	181.0	178.1	171.2	154.5	148.6
77.5°	145.6	142.7	129.9	115.1	116.1
80°	110.2	107.3	92.5	95.4	98.4
82.5°	75.8	71.8	68.9	67.9	67.9
85°	40.3	40.3	41.3	40.3	40.3
87.5°	16.7	17.7	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)