

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: P393306

Luminaire Tested: **22EN-LD2-30-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-30-UNV-L93050-W2A-1-U (2700K)
Description: 2X2 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2589.8 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

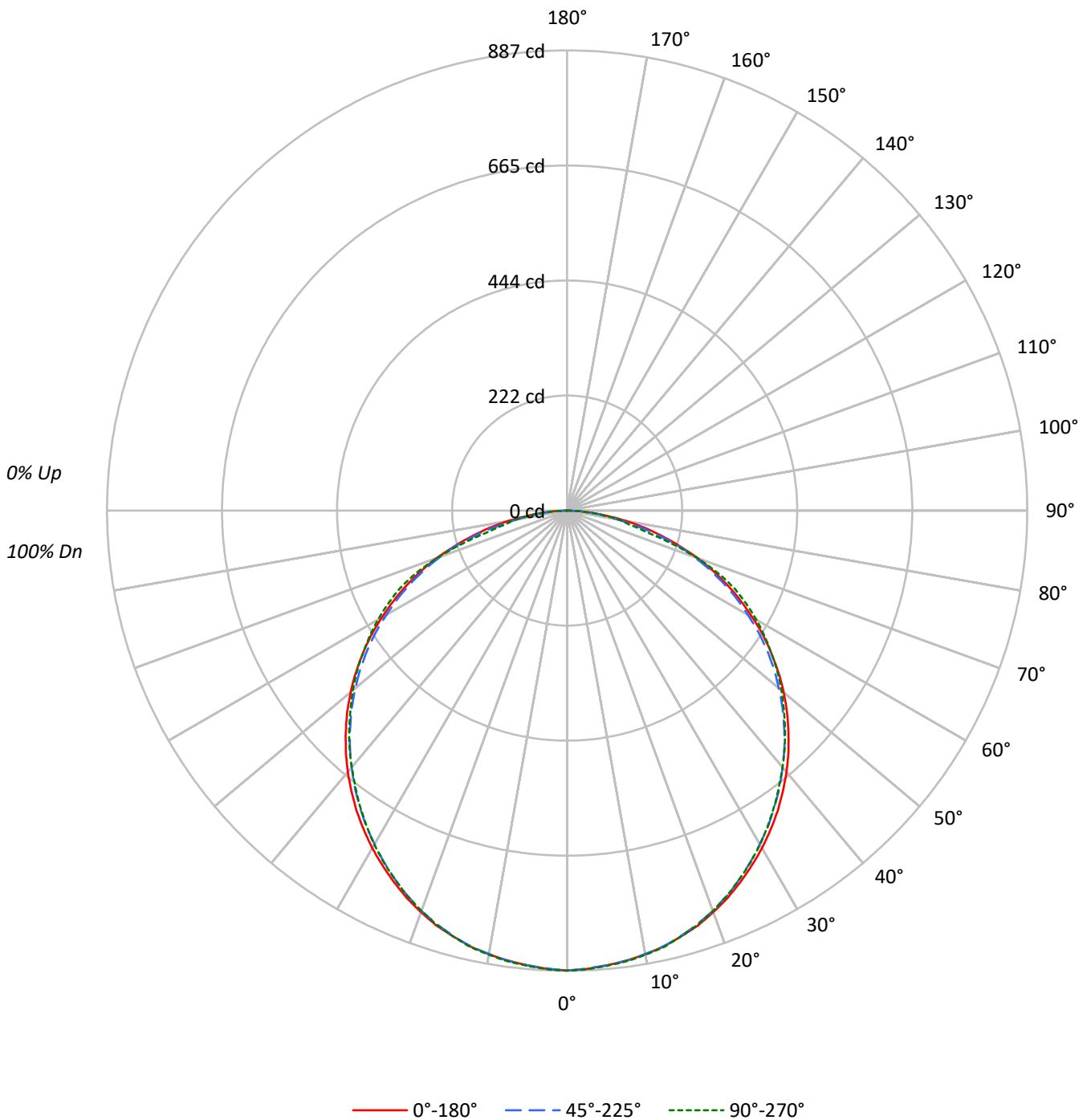
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2386	2386	2386
5°	2377	2377	2379
10°	2373	2371	2376
15°	2367	2365	2367
20°	2359	2351	2351
25°	2346	2330	2330
30°	2334	2307	2310
35°	2323	2289	2286
40°	2311	2269	2269
45°	2297	2251	2261
50°	2281	2230	2259
55°	2256	2208	2256
60°	2221	2166	2268
65°	2177	2122	2271
70°	2099	2052	2099
75°	1957	1867	1616
80°	1779	1512	1592
85°	1306	1334	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.2
10°-20°	240.2	9.3
20°-30°	363.2	14.0
30°-40°	438.7	16.9
40°-50°	460.5	17.8
50°-60°	426.3	16.5
60°-70°	337.2	13.0
70°-80°	189.1	7.3
80°-90°	50.8	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°	687.2	26.5
0°-40°	1125.9	43.5
0°-60°	2012.7	77.7
0°-90°	2589.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2589.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	880	888	880	881	881	84
15°	850	858	849	848	850	240
25°	790	797	785	782	785	364
35°	707	712	697	693	696	442
45°	604	607	592	589	594	466
55°	481	482	471	475	481	430
65°	342	342	333	344	357	338
75°	188	189	180	162	155	200
85°	42	42	43	42	41	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.7	886.7	886.7	886.7	886.7
2.5°	884.2	891.9	883.3	884.2	885.0
5°	879.8	888.5	879.8	880.7	880.7
7.5°	874.7	883.3	875.5	874.7	876.4
10°	868.6	877.2	867.7	868.6	869.5
12.5°	860.8	868.6	860.0	860.0	861.7
15°	849.6	858.3	848.8	847.9	849.6
17.5°	838.4	845.3	835.8	834.9	836.7
20°	823.7	831.5	821.1	819.4	821.1
22.5°	808.2	815.1	803.9	802.1	803.9
25°	790.0	796.9	784.9	782.3	784.9
27.5°	771.0	777.1	764.1	761.5	765.0
30°	751.2	757.2	742.6	740.0	743.4
32.5°	729.6	734.8	721.0	716.6	720.1
35°	707.2	712.3	696.8	693.3	695.9
37.5°	683.0	688.2	672.6	669.2	670.9
40°	657.9	662.3	645.8	642.4	645.8
42.5°	631.2	635.5	619.9	617.4	620.8
45°	603.5	607.0	591.5	588.9	594.0
47.5°	575.0	578.5	563.0	562.1	566.4
50°	544.8	547.4	532.7	533.6	539.6
52.5°	513.7	514.6	502.5	505.1	511.2
55°	480.9	481.8	470.6	474.9	480.9
57.5°	448.1	449.0	437.8	442.9	451.6
60°	412.7	413.6	402.4	411.9	421.4
62.5°	377.3	378.2	368.7	379.0	389.4
65°	341.9	341.9	333.3	344.5	356.6
67.5°	304.8	304.8	297.0	308.2	315.2
70°	266.8	267.7	260.8	263.3	266.8
72.5°	227.1	228.8	222.8	213.3	210.7
75°	188.2	189.1	179.6	162.3	155.4
77.5°	152.0	150.2	136.4	120.9	120.9
80°	114.8	113.1	97.6	100.2	102.7
82.5°	76.8	76.8	71.7	70.8	70.8
85°	42.3	42.3	43.2	42.3	41.4
87.5°	18.1	18.1	19.0	19.0	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)