

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: P393308

Luminaire Tested: **22EN-LD2-30-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393308
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 (3500K)
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: 2522.3 lumens
Efficiency: N/A
Efficacy: 115.7 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

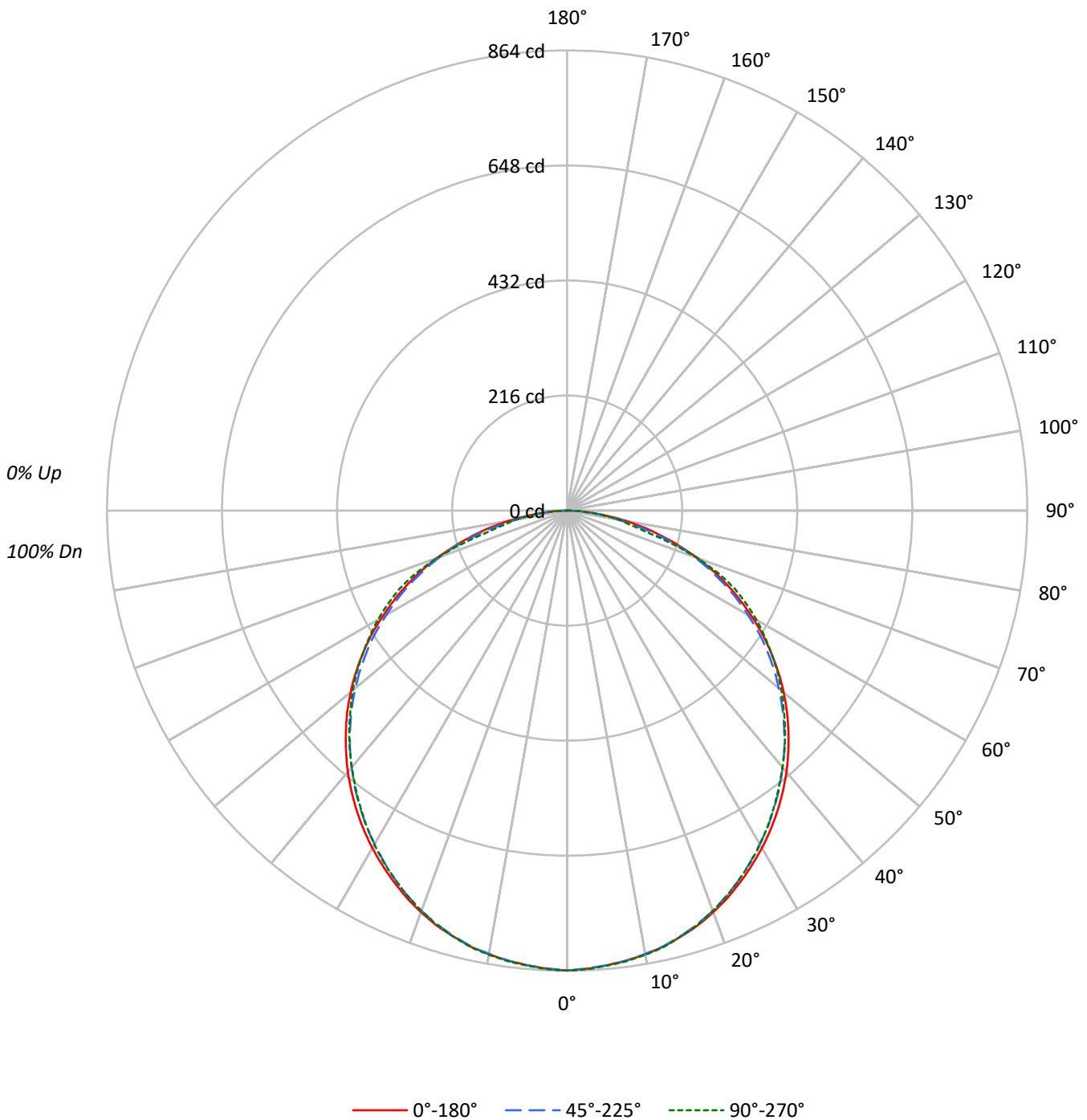
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2324	2324	2324
5°	2315	2315	2317
10°	2312	2309	2314
15°	2305	2303	2305
20°	2297	2290	2290
25°	2284	2270	2270
30°	2273	2247	2250
35°	2262	2229	2227
40°	2251	2210	2210
45°	2237	2192	2202
50°	2221	2172	2200
55°	2198	2150	2198
60°	2164	2109	2209
65°	2120	2067	2211
70°	2044	1998	2044
75°	1906	1818	1574
80°	1733	1472	1551
85°	1272	1297	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.2
10°-20°	233.9	9.3
20°-30°	353.7	14.0
30°-40°	427.2	16.9
40°-50°	448.5	17.8
50°-60°	415.2	16.5
60°-70°	328.4	13.0
70°-80°	184.2	7.3
80°-90°	49.4	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°	669.3	26.5
0°-40°	1096.6	43.5
0°-60°	1960.3	77.7
0°-90°	2522.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	857	865	857	858	858	81
15°	828	836	827	826	828	234
25°	769	776	764	762	764	355
35°	689	694	679	675	678	431
45°	588	591	576	574	579	453
55°	468	469	458	462	468	419
65°	333	333	325	336	347	329
75°	183	184	175	158	151	195
85°	41	41	42	41	40	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.6	863.6	863.6	863.6	863.6
2.5°	861.1	868.7	860.3	861.1	862.0
5°	856.9	865.3	856.9	857.7	857.7
7.5°	851.9	860.3	852.7	851.9	853.5
10°	846.0	854.4	845.1	846.0	846.8
12.5°	838.4	846.0	837.6	837.6	839.2
15°	827.5	835.9	826.6	825.8	827.5
17.5°	816.5	823.3	814.0	813.2	814.9
20°	802.2	809.8	799.7	798.0	799.7
22.5°	787.1	793.8	782.9	781.2	782.9
25°	769.4	776.2	764.4	761.9	764.4
27.5°	750.9	756.8	744.2	741.7	745.1
30°	731.6	737.5	723.2	720.7	724.0
32.5°	710.6	715.6	702.2	698.0	701.3
35°	688.7	693.8	678.6	675.3	677.8
37.5°	665.2	670.2	655.1	651.7	653.4
40°	640.8	645.0	629.0	625.7	629.0
42.5°	614.7	618.9	603.8	601.3	604.6
45°	587.8	591.2	576.0	573.5	578.6
47.5°	560.1	563.4	548.3	547.4	551.6
50°	530.6	533.1	518.9	519.7	525.6
52.5°	500.4	501.2	489.4	491.9	497.8
55°	468.4	469.2	458.3	462.5	468.4
57.5°	436.4	437.3	426.4	431.4	439.8
60°	402.0	402.8	391.9	401.1	410.4
62.5°	367.5	368.3	359.1	369.2	379.3
65°	333.0	333.0	324.6	335.5	347.3
67.5°	296.8	296.8	289.3	300.2	306.9
70°	259.8	260.7	254.0	256.5	259.8
72.5°	221.2	222.8	217.0	207.7	205.2
75°	183.3	184.2	174.9	158.1	151.4
77.5°	148.0	146.3	132.9	117.7	117.7
80°	111.8	110.2	95.0	97.5	100.1
82.5°	74.8	74.8	69.8	69.0	69.0
85°	41.2	41.2	42.0	41.2	40.4
87.5°	17.7	17.7	18.5	18.5	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)