

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: P393296

Luminaire Tested: **22EN-LD2-30-UNV-L83050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393296
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-L83050-W2A-1-U (5700K)
Description: 2X2 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3056.0 lumens
Efficiency: N/A
Efficacy: 140.8 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

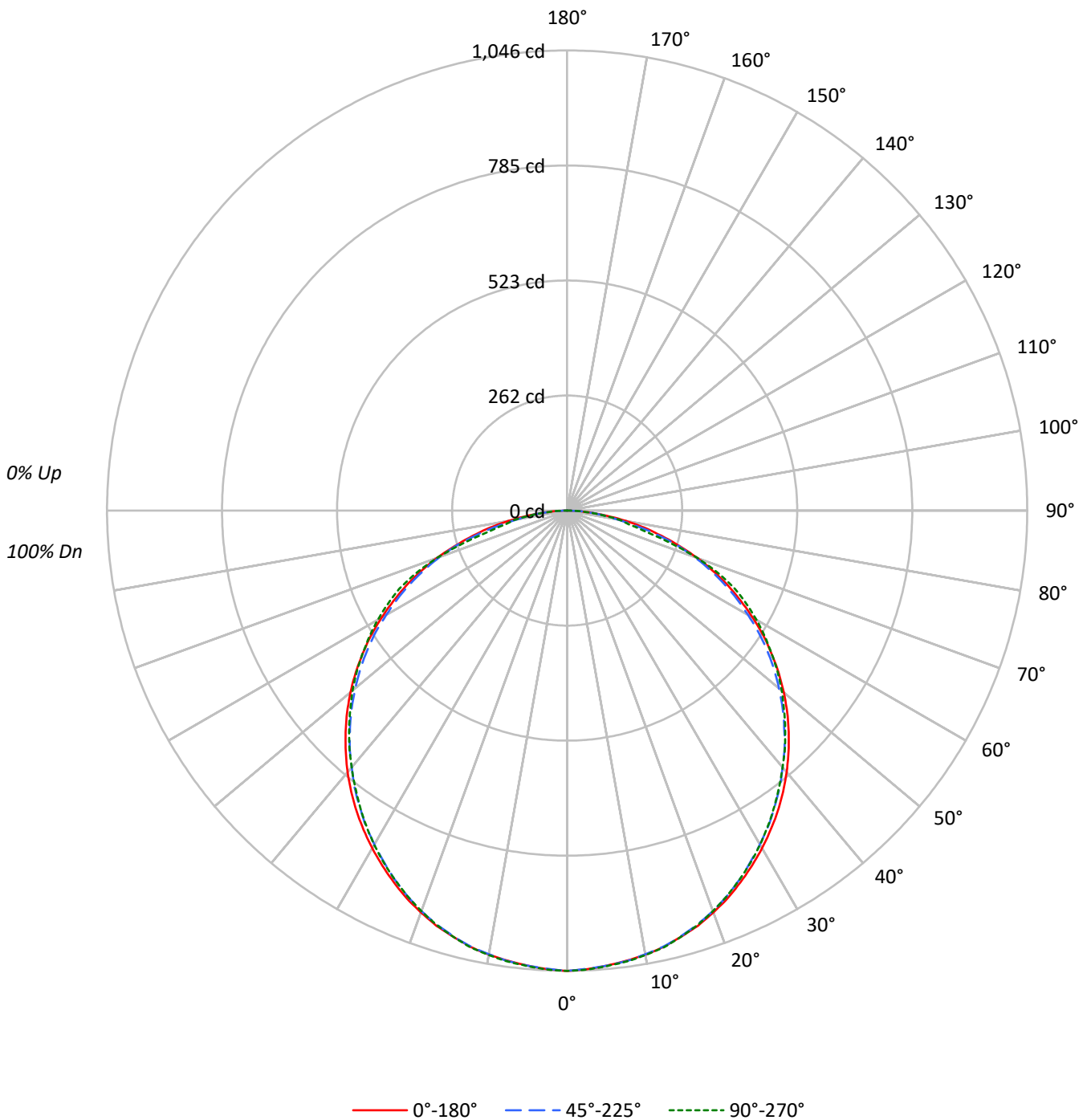
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2816	2816	2816
5°	2804	2804	2807
10°	2801	2798	2804
15°	2793	2790	2793
20°	2783	2775	2775
25°	2768	2750	2750
30°	2754	2723	2726
35°	2741	2701	2698
40°	2727	2677	2677
45°	2710	2656	2668
50°	2691	2632	2666
55°	2662	2605	2662
60°	2621	2555	2676
65°	2569	2504	2679
70°	2477	2421	2477
75°	2309	2203	1907
80°	2100	1784	1878
85°	1541	1572	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.2
10°-20°	283.4	9.3
20°-30°	428.5	14.0
30°-40°	517.6	16.9
40°-50°	543.4	17.8
50°-60°	503.1	16.5
60°-70°	397.9	13.0
70°-80°	223.1	7.3
80°-90°	59.9	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°	810.9	26.5
0°-40°	1328.6	43.5
0°-60°	2375.1	77.7
0°-90°	3056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1038	1048	1038	1039	1039	99
15°	1003	1013	1002	1000	1003	283
25°	932	940	926	923	926	430
35°	834	841	822	818	821	522
45°	712	716	698	695	701	549
55°	568	568	555	560	568	507
65°	404	404	393	406	421	398
75°	222	223	212	192	183	236
85°	50	50	51	50	49	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.4	1046.4	1046.4	1046.4	1046.4
2.5°	1043.3	1052.5	1042.3	1043.3	1044.3
5°	1038.2	1048.4	1038.2	1039.2	1039.2
7.5°	1032.1	1042.3	1033.1	1032.1	1034.1
10°	1025.0	1035.2	1024.0	1025.0	1026.0
12.5°	1015.8	1025.0	1014.8	1014.8	1016.8
15°	1002.6	1012.8	1001.5	1000.5	1002.6
17.5°	989.3	997.5	986.3	985.2	987.3
20°	972.0	981.2	968.9	966.9	968.9
22.5°	953.7	961.8	948.6	946.5	948.6
25°	932.3	940.4	926.1	923.1	926.1
27.5°	909.8	917.0	901.7	898.6	902.7
30°	886.4	893.5	876.2	873.2	877.2
32.5°	860.9	867.1	850.8	845.7	849.7
35°	834.5	840.6	822.2	818.1	821.2
37.5°	805.9	812.0	793.7	789.6	791.7
40°	776.4	781.5	762.1	758.0	762.1
42.5°	744.8	749.9	731.5	728.5	732.6
45°	712.2	716.3	697.9	694.9	701.0
47.5°	678.6	682.6	664.3	663.3	668.4
50°	642.9	646.0	628.6	629.7	636.8
52.5°	606.2	607.2	593.0	596.0	603.2
55°	567.5	568.5	555.3	560.4	567.5
57.5°	528.8	529.8	516.6	522.7	532.9
60°	487.0	488.0	474.8	486.0	497.2
62.5°	445.2	446.3	435.1	447.3	459.5
65°	403.5	403.5	393.3	406.5	420.8
67.5°	359.7	359.7	350.5	363.7	371.9
70°	314.8	315.8	307.7	310.8	314.8
72.5°	268.0	270.0	262.9	251.7	248.6
75°	222.1	223.1	211.9	191.5	183.4
77.5°	179.3	177.3	161.0	142.6	142.6
80°	135.5	133.5	115.1	118.2	121.2
82.5°	90.7	90.7	84.6	83.5	83.5
85°	49.9	49.9	50.9	49.9	48.9
87.5°	21.4	21.4	22.4	22.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)