

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: P393294

Luminaire Tested: **22EN-LD2-30-UNV-L83050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393294
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 (4500K)
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: 3052.9 lumens
Efficiency: N/A
Efficacy: 140.0 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

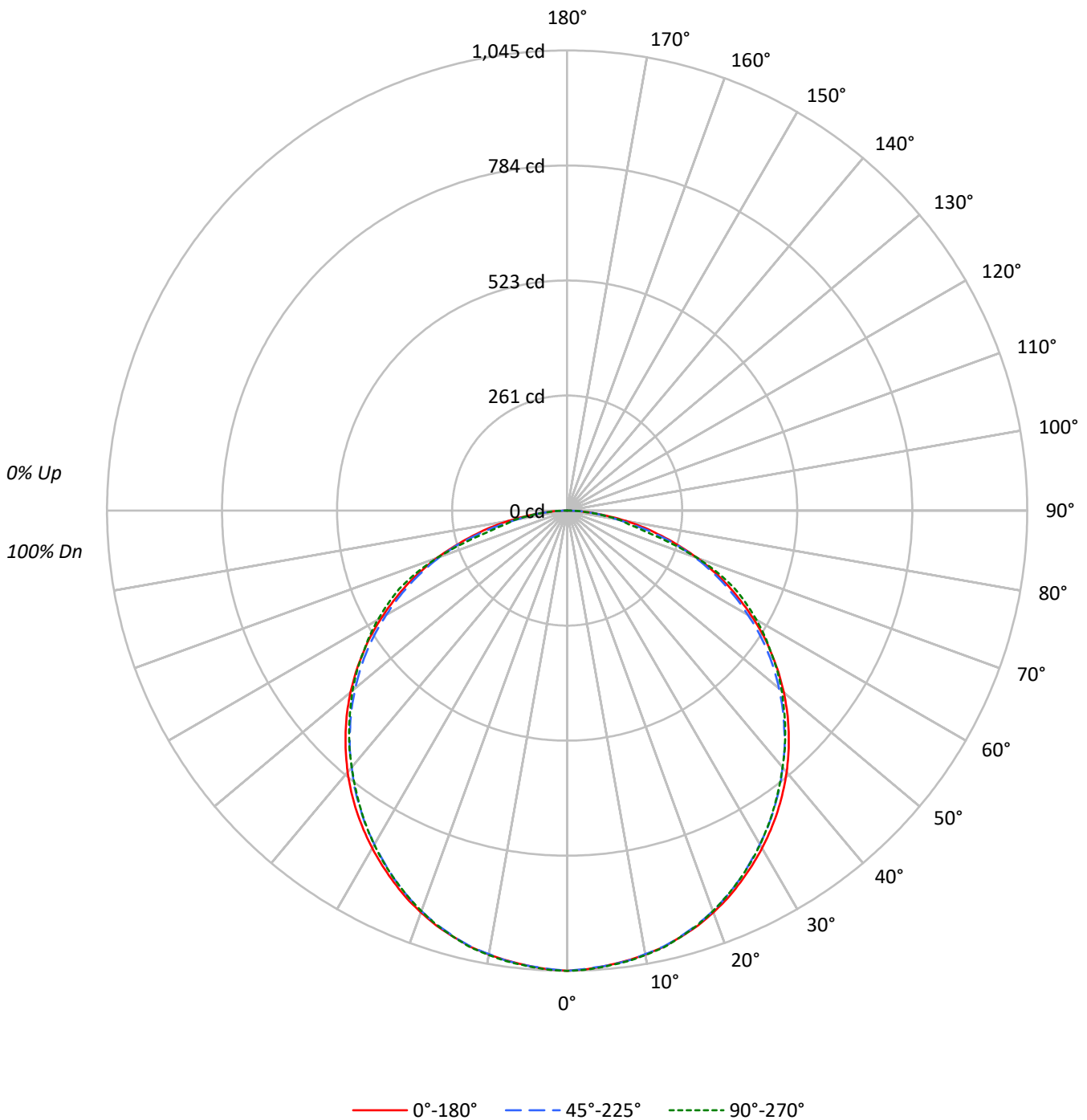
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2813	2813	2813
5°	2802	2802	2804
10°	2798	2795	2801
15°	2790	2787	2790
20°	2781	2772	2772
25°	2765	2747	2747
30°	2751	2720	2723
35°	2738	2698	2695
40°	2725	2674	2674
45°	2708	2653	2665
50°	2689	2629	2663
55°	2660	2602	2660
60°	2618	2553	2673
65°	2567	2502	2677
70°	2474	2419	2474
75°	2307	2201	1905
80°	2098	1782	1877
85°	1541	1572	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.2
10°-20°	283.2	9.3
20°-30°	428.1	14.0
30°-40°	517.1	16.9
40°-50°	542.8	17.8
50°-60°	502.6	16.5
60°-70°	397.5	13.0
70°-80°	222.9	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°	810.1	26.5
0°-40°	1327.2	43.5
0°-60°	2372.6	77.7
0°-90°	3052.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3052.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1045	1045	1045	1045	1045	
5°	1037	1047	1037	1038	1038	99
15°	1002	1012	1000	1000	1002	283
25°	931	940	925	922	925	429
35°	834	840	821	817	820	522
45°	712	716	697	694	700	549
55°	567	568	555	560	567	507
65°	403	403	393	406	420	398
75°	222	223	212	191	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°	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1042.3	1051.4	1041.2	1042.3	1043.3
5°	1037.2	1047.3	1037.2	1038.2	1038.2
7.5°	1031.1	1041.2	1032.1	1031.1	1033.1
10°	1023.9	1034.1	1022.9	1023.9	1025.0
12.5°	1014.8	1023.9	1013.8	1013.8	1015.8
15°	1001.5	1011.7	1000.5	999.5	1001.5
17.5°	988.3	996.5	985.3	984.2	986.3
20°	971.0	980.2	968.0	965.9	968.0
22.5°	952.7	960.8	947.6	945.6	947.6
25°	931.3	939.5	925.2	922.2	925.2
27.5°	908.9	916.0	900.8	897.7	901.8
30°	885.5	892.6	875.3	872.3	876.3
32.5°	860.1	866.2	849.9	844.8	848.9
35°	833.6	839.7	821.4	817.3	820.4
37.5°	805.1	811.2	792.9	788.8	790.9
40°	775.6	780.7	761.3	757.3	761.3
42.5°	744.0	749.1	730.8	727.7	731.8
45°	711.5	715.5	697.2	694.2	700.3
47.5°	677.9	681.9	663.6	662.6	667.7
50°	642.2	645.3	628.0	629.0	636.1
52.5°	605.6	606.6	592.4	595.4	602.6
55°	566.9	567.9	554.7	559.8	566.9
57.5°	528.3	529.3	516.0	522.1	532.3
60°	486.5	487.5	474.3	485.5	496.7
62.5°	444.8	445.8	434.6	446.8	459.0
65°	403.1	403.1	392.9	406.1	420.4
67.5°	359.3	359.3	350.1	363.4	371.5
70°	314.5	315.5	307.4	310.4	314.5
72.5°	267.7	269.7	262.6	251.4	248.3
75°	221.9	222.9	211.7	191.4	183.2
77.5°	179.1	177.1	160.8	142.5	142.5
80°	135.4	133.3	115.0	118.1	121.1
82.5°	90.6	90.6	84.5	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)