

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: P393314

Luminaire Tested: **22EN-LD2-34-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-34-UNV-L82765-W2A-1-U (2700K)
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3115.1 lumens
Efficiency: N/A
Efficacy: 121.7 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

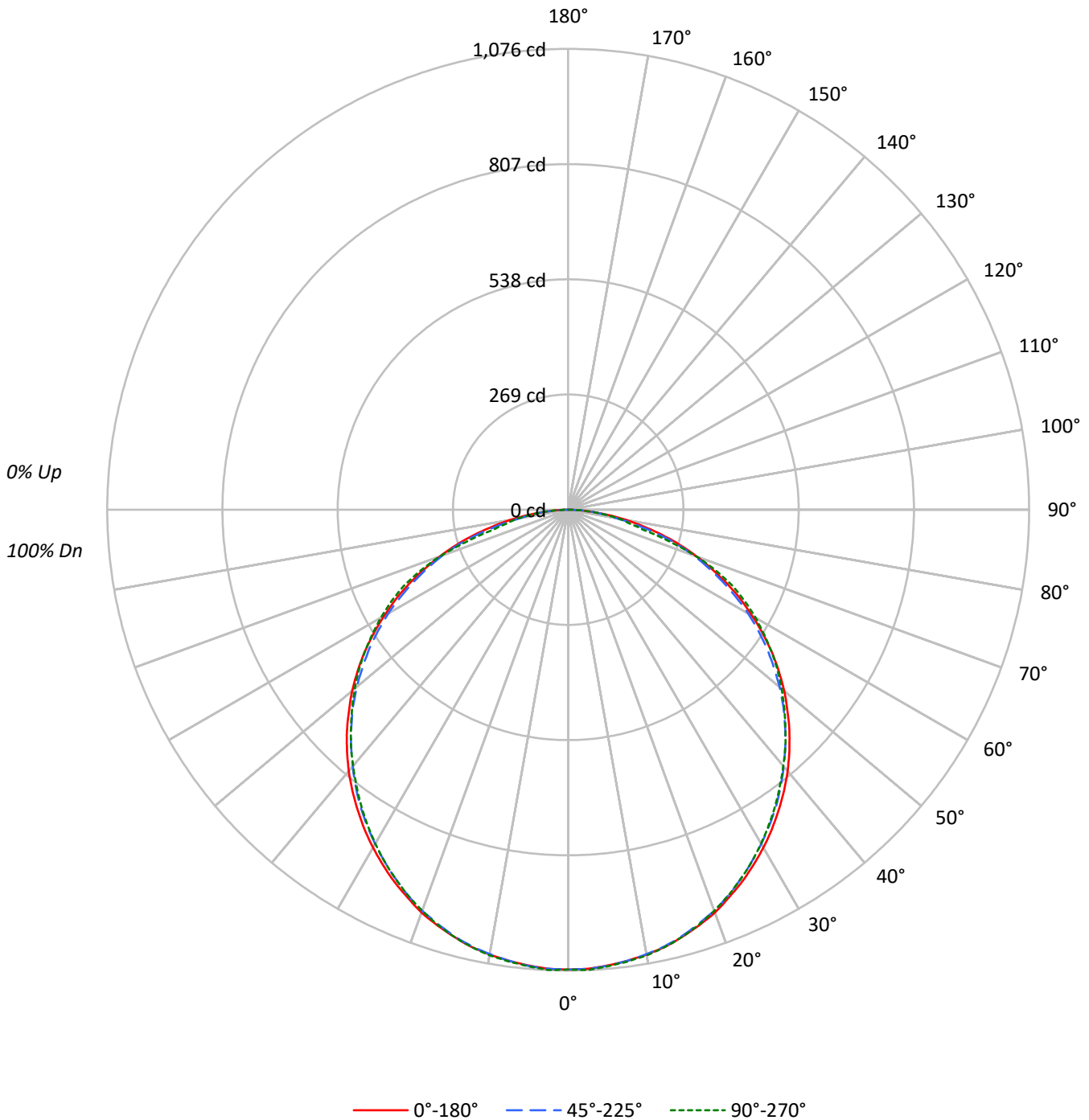
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2890	2890	2890
5°	2886	2888	2891
10°	2882	2879	2887
15°	2875	2870	2875
20°	2867	2854	2854
25°	2848	2827	2827
30°	2831	2800	2797
35°	2814	2778	2769
40°	2799	2748	2744
45°	2780	2724	2728
50°	2757	2696	2723
55°	2723	2660	2719
60°	2669	2611	2718
65°	2609	2534	2707
70°	2509	2452	2509
75°	2352	2220	1899
80°	2112	1774	1900
85°	1572	1599	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	3.3
10°-20°	290.8	9.3
20°-30°	439.5	14.1
30°-40°	530.1	17.0
40°-50°	555.2	17.8
50°-60°	511.9	16.4
60°-70°	401.8	12.9
70°-80°	224.2	7.2
80°-90°	59.9	1.9
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°	831.9	26.7
0°-40°	1362.1	43.7
0°-60°	2429.2	78.0
0°-90°	3115.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1068	1067	1069	1069	1070	102
15°	1032	1030	1030	1030	1032	291
25°	959	956	952	951	952	442
35°	857	853	846	841	843	536
45°	730	725	716	713	717	563
55°	580	574	567	570	580	518
65°	410	403	398	412	425	405
75°	226	222	214	192	183	239
85°	51	49	52	50	51	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.8	1073.8	1073.8	1073.8	1073.8
2.5°	1072.9	1071.9	1072.9	1073.8	1075.6
5°	1068.3	1067.4	1069.2	1069.2	1070.1
7.5°	1062.0	1061.0	1062.0	1062.9	1063.8
10°	1054.7	1053.8	1053.8	1054.7	1056.5
12.5°	1045.6	1043.8	1043.8	1043.8	1045.6
15°	1032.0	1030.2	1030.2	1030.2	1032.0
17.5°	1017.4	1015.6	1013.8	1013.8	1015.6
20°	1001.1	998.4	996.5	995.6	996.5
22.5°	980.2	978.4	975.7	973.8	975.7
25°	959.3	955.7	952.0	951.1	952.0
27.5°	935.7	932.0	927.5	925.7	927.5
30°	911.2	906.6	901.2	898.4	900.3
32.5°	884.8	881.2	873.9	871.2	872.1
35°	856.6	853.0	845.7	841.2	843.0
37.5°	827.6	823.0	814.9	810.3	812.1
40°	796.7	791.2	782.2	778.5	781.2
42.5°	764.0	759.4	750.4	746.7	750.4
45°	730.4	724.9	715.8	713.1	716.8
47.5°	694.0	690.4	681.3	680.4	684.0
50°	658.6	652.3	644.1	645.0	650.4
52.5°	619.5	614.1	605.0	608.6	615.9
55°	580.5	574.1	566.9	570.5	579.6
57.5°	538.7	534.2	526.0	531.4	542.3
60°	496.0	492.4	485.1	494.2	505.1
62.5°	454.2	447.9	441.5	453.3	466.0
65°	409.7	403.3	397.9	411.5	425.1
67.5°	363.4	358.8	354.3	365.2	374.3
70°	318.9	314.3	311.6	313.4	318.9
72.5°	273.4	268.9	266.2	256.2	249.8
75°	226.2	221.7	213.5	191.7	182.6
77.5°	179.9	177.1	160.8	141.7	144.4
80°	136.3	131.7	114.5	118.1	122.6
82.5°	92.7	88.1	86.3	83.6	84.5
85°	50.9	49.1	51.8	50.0	50.9
87.5°	20.0	20.9	22.7	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)