

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: P393320

Luminaire Tested: **22EN-LD2-34-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393320
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 (5700K)
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: 3305.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

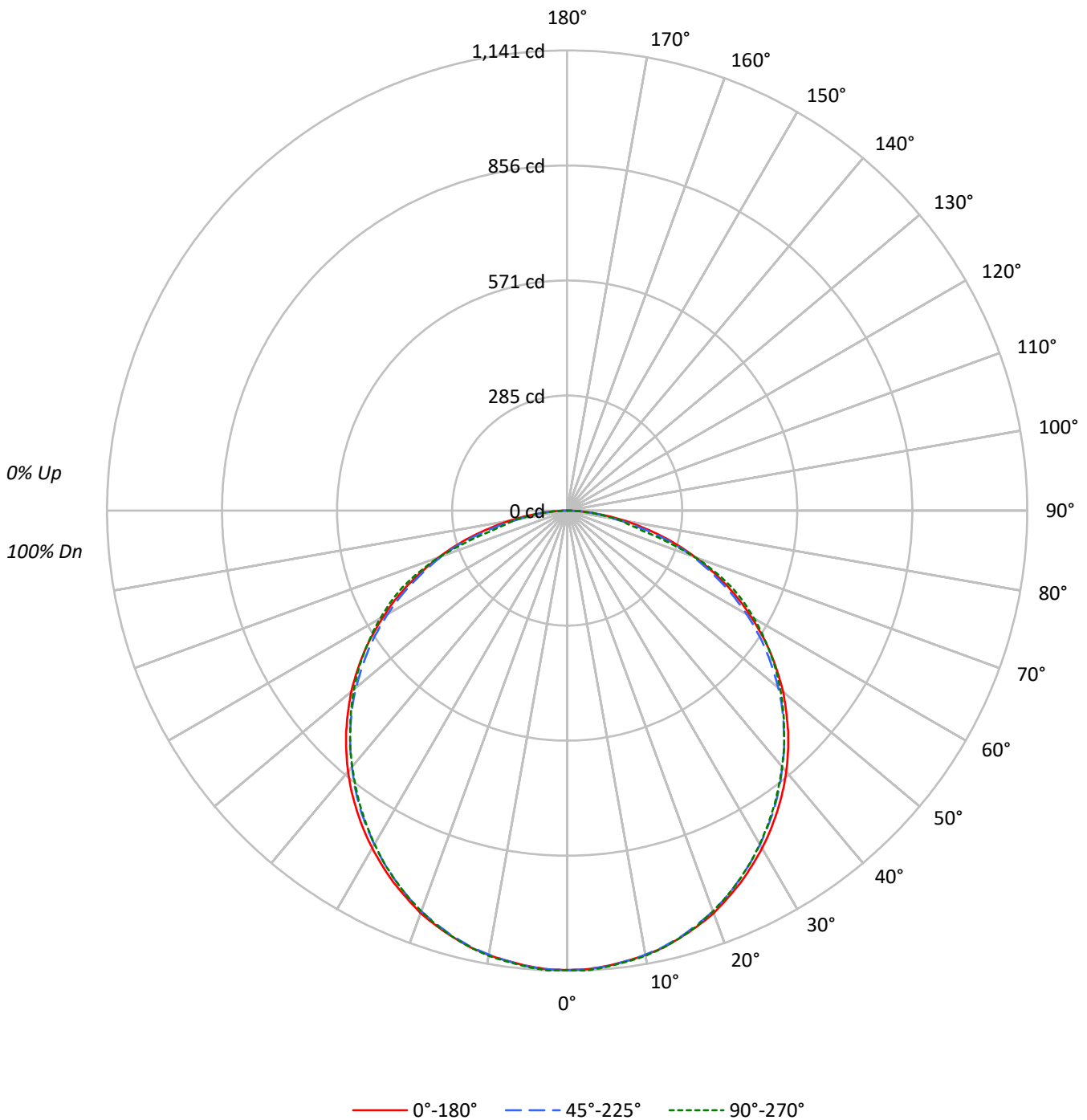
Input Watts (W): 25.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3066	3066	3066
5°	3062	3064	3067
10°	3058	3055	3063
15°	3050	3045	3050
20°	3042	3028	3028
25°	3022	2999	2999
30°	3004	2971	2968
35°	2986	2948	2938
40°	2969	2915	2912
45°	2949	2890	2894
50°	2925	2861	2889
55°	2890	2822	2885
60°	2832	2770	2884
65°	2768	2688	2872
70°	2662	2601	2662
75°	2495	2355	2014
80°	2241	1881	2016
85°	1667	1695	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.3
10°-20°	308.6	9.3
20°-30°	466.3	14.1
30°-40°	562.4	17.0
40°-50°	589.1	17.8
50°-60°	543.1	16.4
60°-70°	426.3	12.9
70°-80°	237.8	7.2
80°-90°	63.6	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°	882.6	26.7
0°-40°	1445.1	43.7
0°-60°	2577.3	78.0
0°-90°	3305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1133	1132	1134	1134	1135	108
15°	1095	1093	1093	1093	1095	309
25°	1018	1014	1010	1009	1010	469
35°	909	905	897	892	894	569
45°	775	769	760	757	760	597
55°	616	609	601	605	615	550
65°	435	428	422	437	451	429
75°	240	235	226	203	194	254
85°	54	52	55	53	54	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.2	1139.2	1139.2	1139.2	<i>1139.2</i>
2.5°	<i>1138.3</i>	<i>1137.3</i>	<i>1138.3</i>	<i>1139.2</i>	<i>1141.2</i>
5°	1133.4	1132.5	1134.4	1134.4	<i>1135.4</i>
7.5°	1126.7	1125.7	1126.7	1127.7	<i>1128.6</i>
10°	1119.0	1118.0	1118.0	1119.0	<i>1120.9</i>
12.5°	1109.4	1107.4	1107.4	1107.4	<i>1109.4</i>
15°	1094.9	1093.0	1093.0	1093.0	<i>1094.9</i>
17.5°	1079.5	1077.5	1075.6	1075.6	<i>1077.5</i>
20°	1062.1	1059.2	1057.3	1056.3	<i>1057.3</i>
22.5°	1040.0	1038.0	1035.1	1033.2	<i>1035.1</i>
25°	1017.8	1013.9	1010.1	1009.1	<i>1010.1</i>
27.5°	992.7	988.9	984.1	982.1	<i>984.1</i>
30°	966.7	961.9	956.1	953.2	<i>955.1</i>
32.5°	938.8	934.9	927.2	924.3	<i>925.3</i>
35°	908.9	905.0	897.3	892.5	<i>894.4</i>
37.5°	878.0	873.2	864.5	859.7	<i>861.7</i>
40°	845.3	839.5	829.8	826.0	<i>828.9</i>
42.5°	810.6	805.8	796.1	792.3	<i>796.1</i>
45°	774.9	769.1	759.5	756.6	<i>760.5</i>
47.5°	736.4	732.5	722.9	721.9	<i>725.8</i>
50°	698.8	692.0	683.3	684.3	<i>690.1</i>
52.5°	657.3	651.5	641.9	645.8	<i>653.5</i>
55°	615.9	609.1	601.4	605.3	<i>614.9</i>
57.5°	571.5	566.7	558.0	563.8	<i>575.4</i>
60°	526.2	522.4	514.7	524.3	<i>535.9</i>
62.5°	481.9	475.2	468.4	480.9	<i>494.4</i>
65°	434.7	427.9	422.2	436.6	<i>451.1</i>
67.5°	385.5	380.7	375.9	387.5	<i>397.1</i>
70°	338.3	333.5	330.6	332.5	<i>338.3</i>
72.5°	290.1	285.3	282.4	271.8	<i>265.0</i>
75°	240.0	235.2	226.5	203.4	<i>193.7</i>
77.5°	190.8	187.9	170.6	150.4	<i>153.2</i>
80°	144.6	139.8	121.4	125.3	<i>130.1</i>
82.5°	98.3	93.5	91.6	88.7	<i>89.6</i>
85°	54.0	52.0	54.9	53.0	<i>54.0</i>
87.5°	21.2	22.2	24.1	23.1	<i>23.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)