

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: P393143

Luminaire Tested: **14EN-LD2-43-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-54)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-43-UNV-L92765-W2A-1-U (5000K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3584.7 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

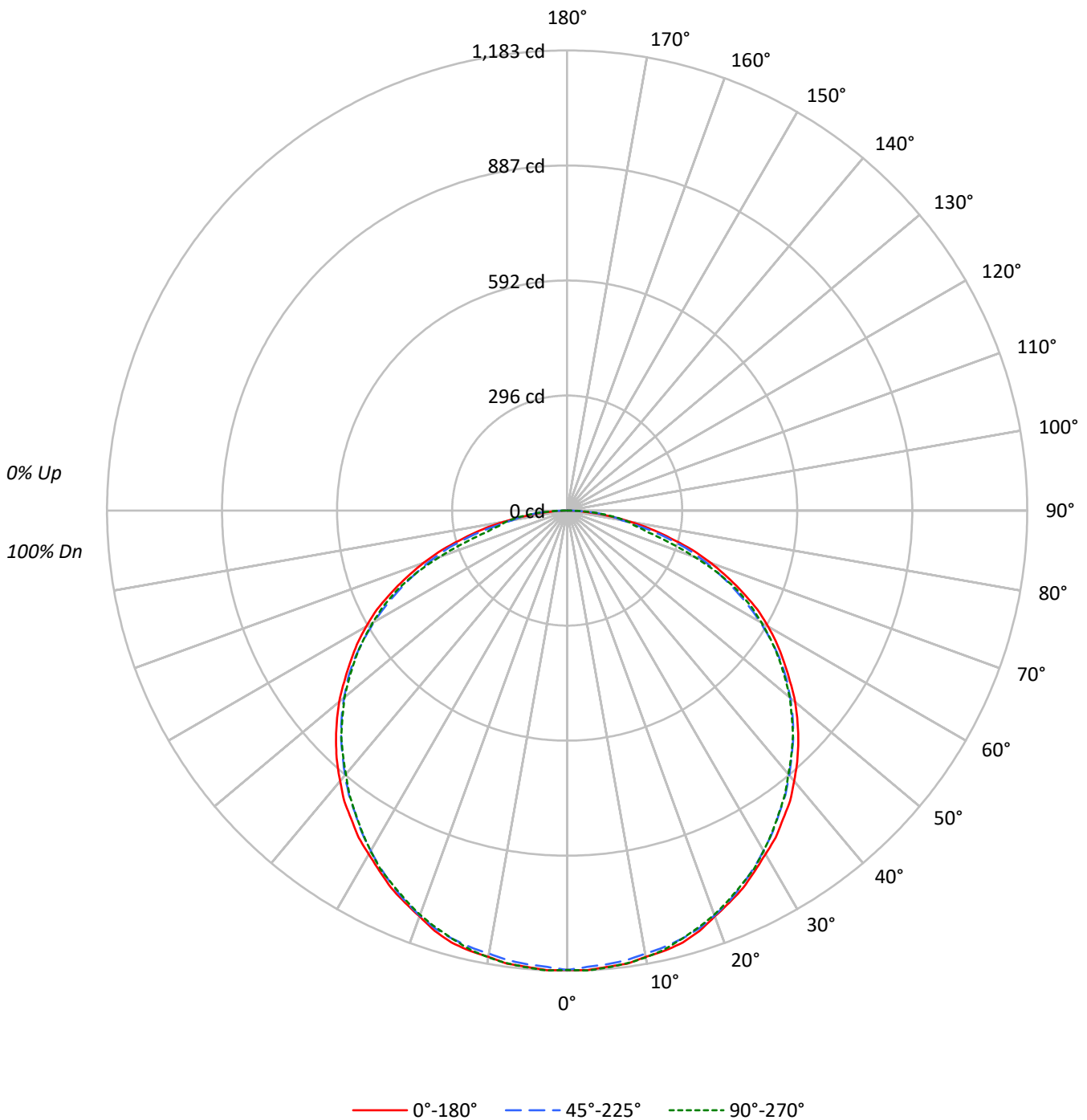
Input Watts (W): 41.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3178	3178	3178
5°	3181	3163	3185
10°	3183	3160	3188
15°	3203	3175	3175
20°	3179	3172	3167
25°	3178	3156	3151
30°	3169	3138	3140
35°	3179	3120	3118
40°	3189	3121	3109
45°	3198	3127	3124
50°	3204	3134	3126
55°	3195	3136	3120
60°	3212	3085	3108
65°	3172	3005	3065
70°	3091	2918	2752
75°	2865	2691	2244
80°	2534	2194	2416
85°	1846	2393	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	3.1
10°-20°	322.2	9.0
20°-30°	490.4	13.7
30°-40°	598.5	16.7
40°-50°	637.7	17.8
50°-60°	597.9	16.7
60°-70°	474.9	13.2
70°-80°	270.0	7.5
80°-90°	81.0	2.3
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°	924.5	25.8
0°-40°	1523.0	42.5
0°-60°	2758.7	77.0
0°-90°	3584.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3584.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1178	1175	1171	1180	1179	112
15°	1150	1146	1140	1138	1140	324
25°	1070	1065	1063	1060	1061	493
35°	968	959	950	952	949	606
45°	840	836	822	819	821	648
55°	681	675	668	660	665	610
65°	498	490	472	478	481	492
75°	276	273	259	230	216	294
85°	60	66	78	78	79	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.9	1180.9	1180.9	1180.9	1180.9
2.5°	1182.6	1179.2	1174.2	1185.1	1183.4
5°	1177.5	1175.0	1170.8	1180.1	1179.2
7.5°	1175.0	1169.9	1165.7	1175.8	1174.2
10°	1164.9	1165.7	1156.5	1166.6	1166.6
12.5°	1159.0	1157.3	1149.7	1153.1	1155.6
15°	1149.7	1146.3	1139.6	1137.9	1139.6
17.5°	1132.9	1129.5	1127.0	1121.1	1123.6
20°	1110.1	1111.8	1107.6	1102.5	1105.9
22.5°	1090.7	1089.0	1087.3	1082.3	1084.0
25°	1070.5	1065.4	1062.9	1059.5	1061.2
27.5°	1044.4	1041.0	1037.6	1035.9	1039.3
30°	1019.9	1014.9	1009.8	1008.1	1010.6
32.5°	997.2	987.9	982.0	982.8	980.3
35°	967.6	959.2	949.9	952.5	949.1
37.5°	941.5	931.4	921.3	923.8	919.6
40°	907.8	901.9	888.4	890.1	885.0
42.5°	875.8	872.4	854.7	855.5	853.0
45°	840.4	836.2	821.8	819.3	821.0
47.5°	803.3	799.1	786.4	780.5	783.1
50°	765.4	760.3	748.5	743.4	746.8
52.5°	722.4	719.8	710.6	703.0	705.5
55°	681.1	675.2	668.4	660.0	665.0
57.5°	640.6	633.9	621.2	617.0	622.1
60°	596.8	585.8	573.2	569.8	577.4
62.5°	551.3	538.6	522.6	523.4	532.7
65°	498.2	489.7	472.0	477.9	481.3
67.5°	444.2	437.5	420.6	429.0	419.8
70°	392.8	384.4	370.9	359.9	349.8
72.5°	338.0	327.9	319.5	290.8	279.0
75°	275.6	273.1	258.8	230.1	215.8
77.5°	222.5	216.6	197.2	175.3	177.0
80°	163.5	167.7	141.6	151.7	155.9
82.5°	107.9	110.4	117.2	122.2	121.4
85°	59.8	65.7	77.5	77.5	79.2
87.5°	22.8	29.5	33.7	34.6	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)