

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: P392911

Luminaire Tested: **12EN-LD2-35-UNV-L83050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-35-UNV-L83050-W2A-1-U (5000K)
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3559.2 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

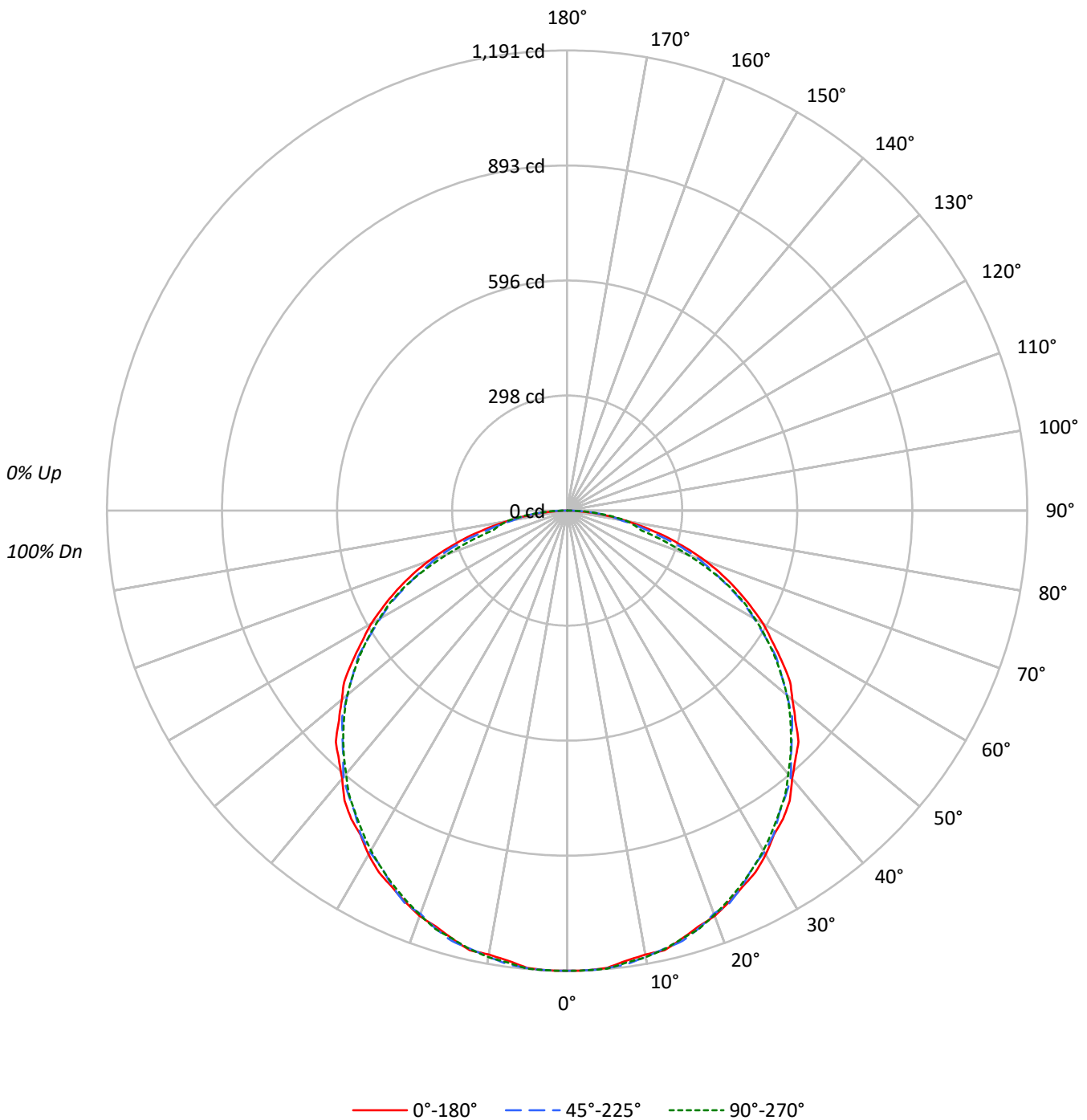
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	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	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6410	6410	6410
5°	6418	6424	6429
10°	6375	6409	6414
15°	6392	6427	6392
20°	6396	6361	6378
25°	6377	6365	6341
30°	6389	6344	6313
35°	6399	6286	6279
40°	6364	6328	6256
45°	6444	6258	6235
50°	6373	6210	6219
55°	6357	6195	6147
60°	6306	6009	6054
65°	6176	5813	5877
70°	5997	5660	5194
75°	5573	5022	4153
80°	4863	4327	4894
85°	3903	4656	4718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	3.2
10°-20°	324.4	9.1
20°-30°	493.9	13.9
30°-40°	602.4	16.9
40°-50°	637.5	17.9
50°-60°	590.5	16.6
60°-70°	460.0	12.9
70°-80°	258.0	7.2
80°-90°	79.6	2.2
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°	931.1	26.2
0°-40°	1533.5	43.1
0°-60°	2761.6	77.6
0°-90°	3559.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3559.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1188	1189	1189	1191	1190	113
15°	1147	1149	1153	1149	1147	324
25°	1074	1072	1072	1065	1068	496
35°	974	966	957	955	956	608
45°	847	836	822	820	819	648
55°	678	672	660	651	655	606
65°	485	476	456	460	462	479
75°	268	260	242	216	200	282
85°	63	65	75	76	76	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.1	1191.1	1191.1	1191.1	1191.1
2.5°	1191.1	1189.0	1191.1	1190.0	1191.1
5°	1188.0	1189.0	1189.0	1191.1	1190.0
7.5°	1174.8	1179.8	1183.9	1182.9	1179.8
10°	1166.6	1171.7	1172.7	1170.7	1173.7
12.5°	1165.6	1166.6	1161.5	1164.6	1162.5
15°	1147.2	1149.3	1153.4	1149.3	1147.2
17.5°	1128.9	1133.0	1134.0	1130.9	1135.0
20°	1116.7	1119.7	1110.6	1114.6	1113.6
22.5°	1096.3	1097.3	1099.4	1092.2	1091.2
25°	1073.9	1071.8	1071.8	1064.7	1067.8
27.5°	1055.5	1048.4	1040.3	1044.3	1042.3
30°	1028.0	1027.0	1020.9	1016.8	1015.8
32.5°	995.4	996.4	994.4	985.2	986.3
35°	974.0	965.9	956.7	954.7	955.7
37.5°	946.5	939.4	929.2	926.1	927.2
40°	905.8	904.8	900.7	888.4	890.5
42.5°	874.2	868.1	857.9	852.8	855.8
45°	846.7	836.5	822.2	820.2	819.2
47.5°	800.8	798.8	789.6	778.4	782.5
50°	761.1	757.0	741.7	735.6	742.8
52.5°	727.5	717.3	698.9	697.9	698.9
55°	677.5	672.5	660.2	651.1	655.1
57.5°	628.6	624.6	607.2	604.2	609.3
60°	585.8	578.7	558.3	557.3	562.4
62.5°	534.9	529.8	511.5	511.5	516.6
65°	485.0	475.8	456.5	459.5	461.5
67.5°	434.0	422.8	405.5	402.5	396.3
70°	381.1	369.8	359.7	340.3	330.1
72.5°	323.0	314.8	303.6	274.1	263.9
75°	268.0	259.8	241.5	216.0	199.7
77.5°	209.9	206.8	185.4	175.2	179.3
80°	156.9	155.9	139.6	152.8	157.9
82.5°	107.0	102.9	113.1	119.2	119.2
85°	63.2	65.2	75.4	76.4	76.4
87.5°	25.5	29.5	34.6	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)