

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: P393129

Luminaire Tested: **14EN-LD2-43-UNV-L82765-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393129
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-L82765-W2A-1-U (6500K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4103.2 lumens
Efficiency: N/A
Efficacy: 99.6 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

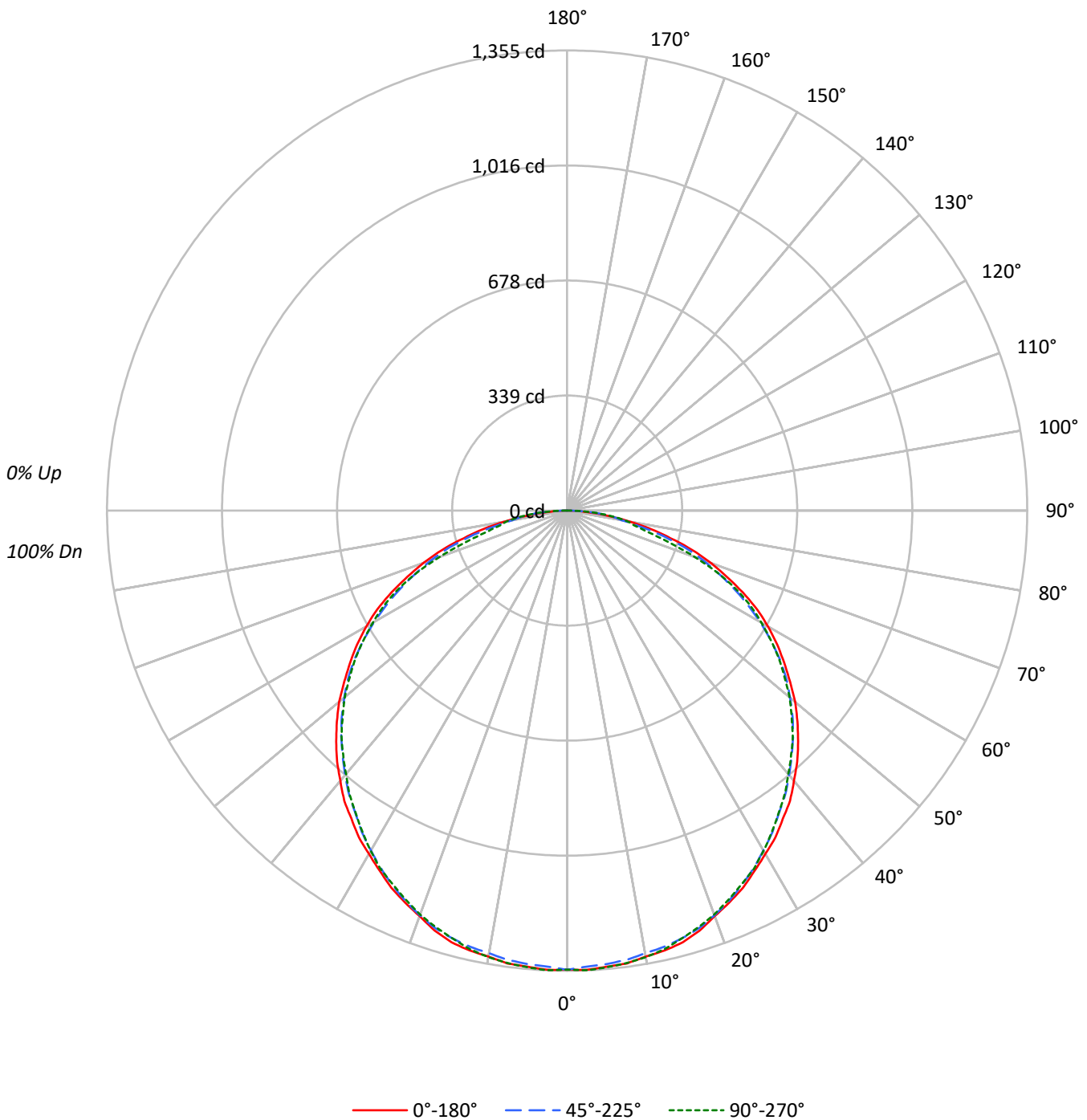
Input Watts (W): 41.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3637	3637	3637
5°	3641	3620	3646
10°	3644	3617	3649
15°	3666	3634	3634
20°	3639	3631	3625
25°	3638	3612	3607
30°	3627	3592	3594
35°	3639	3572	3569
40°	3650	3572	3559
45°	3661	3580	3576
50°	3668	3587	3579
55°	3658	3590	3571
60°	3676	3531	3557
65°	3631	3440	3508
70°	3537	3340	3150
75°	3280	3080	2568
80°	2901	2512	2766
85°	2115	2742	2800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.1
10°-20°	368.8	9.0
20°-30°	561.3	13.7
30°-40°	685.1	16.7
40°-50°	730.0	17.8
50°-60°	684.4	16.7
60°-70°	543.6	13.2
70°-80°	309.1	7.5
80°-90°	92.8	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°	1058.2	25.8
0°-40°	1743.3	42.5
0°-60°	3157.7	77.0
0°-90°	4103.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4103.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1348	1345	1340	1351	1350	128
15°	1316	1312	1304	1302	1304	371
25°	1225	1220	1217	1213	1215	564
35°	1108	1098	1087	1090	1086	694
45°	962	957	941	938	940	742
55°	780	773	765	756	761	698
65°	570	561	540	547	551	563
75°	316	313	296	263	247	336
85°	68	75	89	89	91	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.7	1351.7	1351.7	1351.7	1351.7
2.5°	1353.6	1349.8	1344.0	1356.5	1354.6
5°	1347.9	1345.0	1340.1	1350.8	1349.8
7.5°	1345.0	1339.2	1334.3	1345.9	1344.0
10°	1333.4	1334.3	1323.7	1335.3	1335.3
12.5°	1326.6	1324.7	1316.0	1319.9	1322.8
15°	1316.0	1312.2	1304.4	1302.5	1304.4
17.5°	1296.7	1292.9	1290.0	1283.2	1286.1
20°	1270.7	1272.6	1267.8	1262.0	1265.8
22.5°	1248.5	1246.5	1244.6	1238.8	1240.8
25°	1225.3	1219.5	1216.6	1212.8	1214.7
27.5°	1195.4	1191.6	1187.7	1185.8	1189.6
30°	1167.4	1161.6	1155.9	1153.9	1156.8
32.5°	1141.4	1130.8	1124.0	1125.0	1122.1
35°	1107.6	1098.0	1087.4	1090.2	1086.4
37.5°	1077.7	1066.1	1054.6	1057.4	1052.6
40°	1039.1	1032.4	1016.9	1018.9	1013.1
42.5°	1002.4	998.6	978.3	979.3	976.4
45°	961.9	957.1	940.7	937.8	939.7
47.5°	919.5	914.7	900.2	893.4	896.3
50°	876.1	870.3	856.8	851.0	854.8
52.5°	826.9	824.0	813.3	804.7	807.6
55°	779.6	772.8	765.1	755.5	761.2
57.5°	733.3	725.5	711.1	706.2	712.0
60°	683.1	670.6	656.1	652.2	660.9
62.5°	631.0	616.5	598.2	599.2	609.8
65°	570.2	560.6	540.3	547.1	550.9
67.5°	508.5	500.7	481.4	491.1	480.5
70°	449.6	440.0	424.5	412.0	400.4
72.5°	386.9	375.3	365.7	332.9	319.4
75°	315.5	312.6	296.2	263.4	247.0
77.5°	254.7	248.0	225.8	200.7	202.6
80°	187.2	192.0	162.1	173.7	178.5
82.5°	123.5	126.4	134.1	139.9	138.9
85°	68.5	75.3	88.8	88.8	90.7
87.5°	26.1	33.8	38.6	39.6	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)