

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: P393153

Luminaire Tested: **14EN-LD2-43-UNV-L93050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393153
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-L93050-W2A-1-U (6500K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3751.6 lumens
Efficiency: N/A
Efficacy: 91.5 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

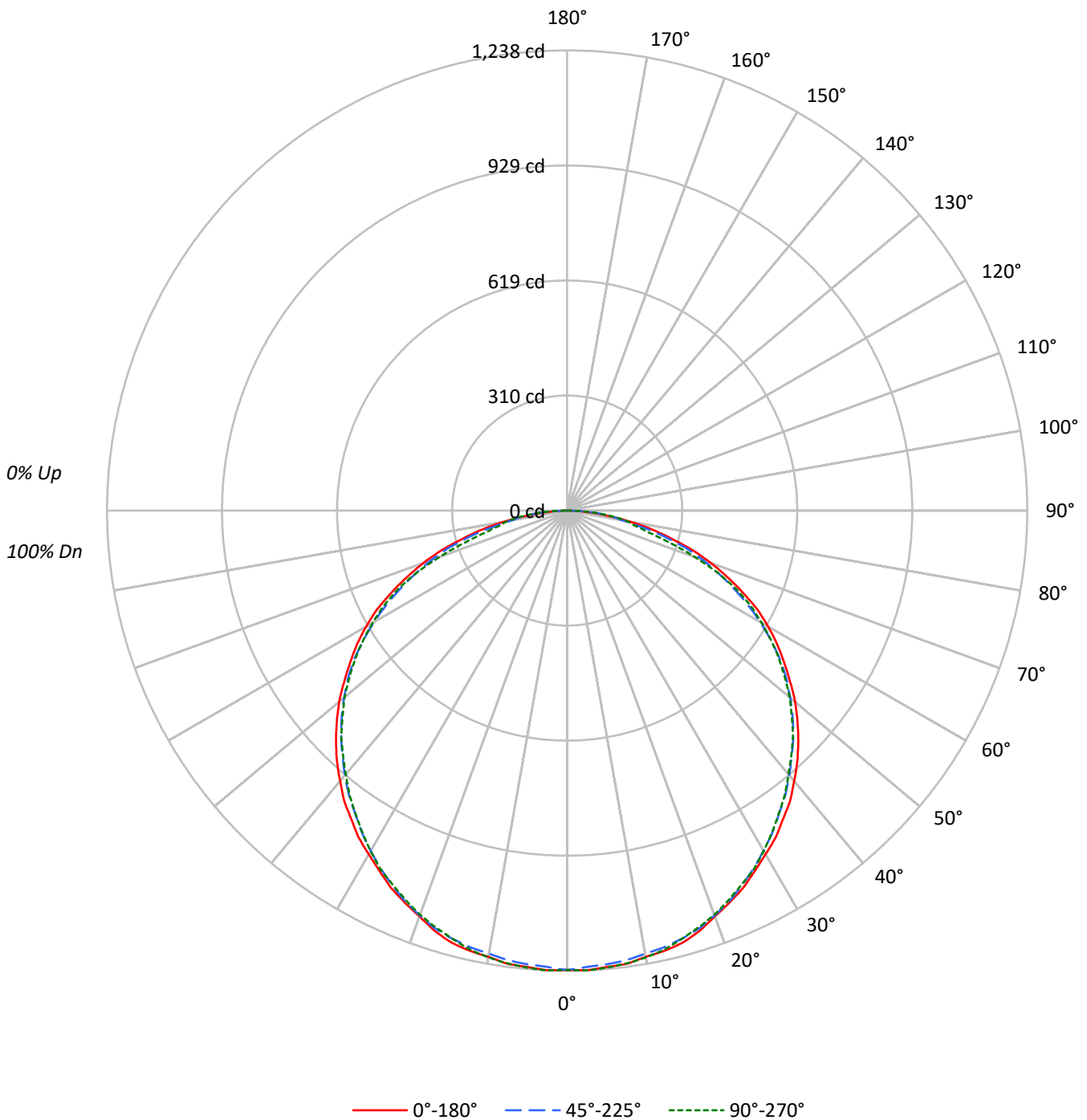
Input Watts (W): 41
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3326	3326	3326
5°	3329	3310	3334
10°	3331	3307	3336
15°	3352	3323	3323
20°	3327	3319	3314
25°	3326	3303	3298
30°	3317	3284	3287
35°	3327	3266	3263
40°	3338	3266	3254
45°	3347	3273	3270
50°	3353	3279	3272
55°	3344	3282	3265
60°	3362	3229	3252
65°	3320	3145	3207
70°	3234	3054	2880
75°	3000	2816	2348
80°	2651	2297	2529
85°	1933	2507	2560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.1
10°-20°	337.2	9.0
20°-30°	513.2	13.7
30°-40°	626.4	16.7
40°-50°	667.4	17.8
50°-60°	625.7	16.7
60°-70°	497.0	13.2
70°-80°	282.6	7.5
80°-90°	84.8	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°	967.6	25.8
0°-40°	1594.0	42.5
0°-60°	2887.1	77.0
0°-90°	3751.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3751.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1232	1230	1225	1235	1234	117
15°	1203	1200	1193	1191	1193	339
25°	1120	1115	1112	1109	1111	516
35°	1013	1004	994	997	993	635
45°	880	875	860	857	859	678
55°	713	707	700	691	696	638
65°	521	512	494	500	504	515
75°	288	286	271	241	226	308
85°	63	69	81	81	83	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.9	1235.9	1235.9	1235.9	1235.9
2.5°	1237.7	1234.1	1228.8	1240.3	1238.5
5°	1232.4	1229.7	1225.3	1235.0	1234.1
7.5°	1229.7	1224.4	1220.0	1230.6	1228.8
10°	1219.1	1220.0	1210.3	1220.9	1220.9
12.5°	1213.0	1211.2	1203.3	1206.8	1209.4
15°	1203.3	1199.7	1192.7	1190.9	1192.7
17.5°	1185.6	1182.1	1179.4	1173.3	1175.9
20°	1161.8	1163.6	1159.1	1153.9	1157.4
22.5°	1141.5	1139.7	1138.0	1132.7	1134.4
25°	1120.3	1115.0	1112.4	1108.9	1110.6
27.5°	1093.0	1089.5	1085.9	1084.2	1087.7
30°	1067.4	1062.1	1056.8	1055.1	1057.7
32.5°	1043.6	1033.9	1027.7	1028.6	1025.9
35°	1012.7	1003.9	994.2	996.8	993.3
37.5°	985.4	974.8	964.2	966.8	962.4
40°	950.1	943.9	929.8	931.6	926.3
42.5°	916.6	913.0	894.5	895.4	892.7
45°	879.5	875.1	860.1	857.4	859.2
47.5°	840.7	836.3	823.0	816.9	819.5
50°	801.0	795.7	783.3	778.1	781.6
52.5°	756.0	753.4	743.7	735.7	738.4
55°	712.8	706.6	699.5	690.7	696.0
57.5°	670.4	663.4	650.1	645.7	651.0
60°	624.6	613.1	599.9	596.3	604.3
62.5°	576.9	563.7	546.9	547.8	557.5
65°	521.4	512.5	494.0	500.2	503.7
67.5°	464.9	457.8	440.2	449.0	439.3
70°	411.1	402.3	388.1	376.7	366.1
72.5°	353.7	343.2	334.3	304.3	292.0
75°	288.5	285.8	270.8	240.8	225.8
77.5°	232.9	226.7	206.4	183.5	185.3
80°	171.1	175.5	148.2	158.8	163.2
82.5°	112.9	115.6	122.6	127.9	127.0
85°	62.6	68.8	81.2	81.2	82.9
87.5°	23.8	30.9	35.3	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)