

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: P393150

Luminaire Tested: **14EN-LD2-43-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393150
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 (4500K)
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: 3734.3 lumens
Efficiency: N/A
Efficacy: 90.9 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

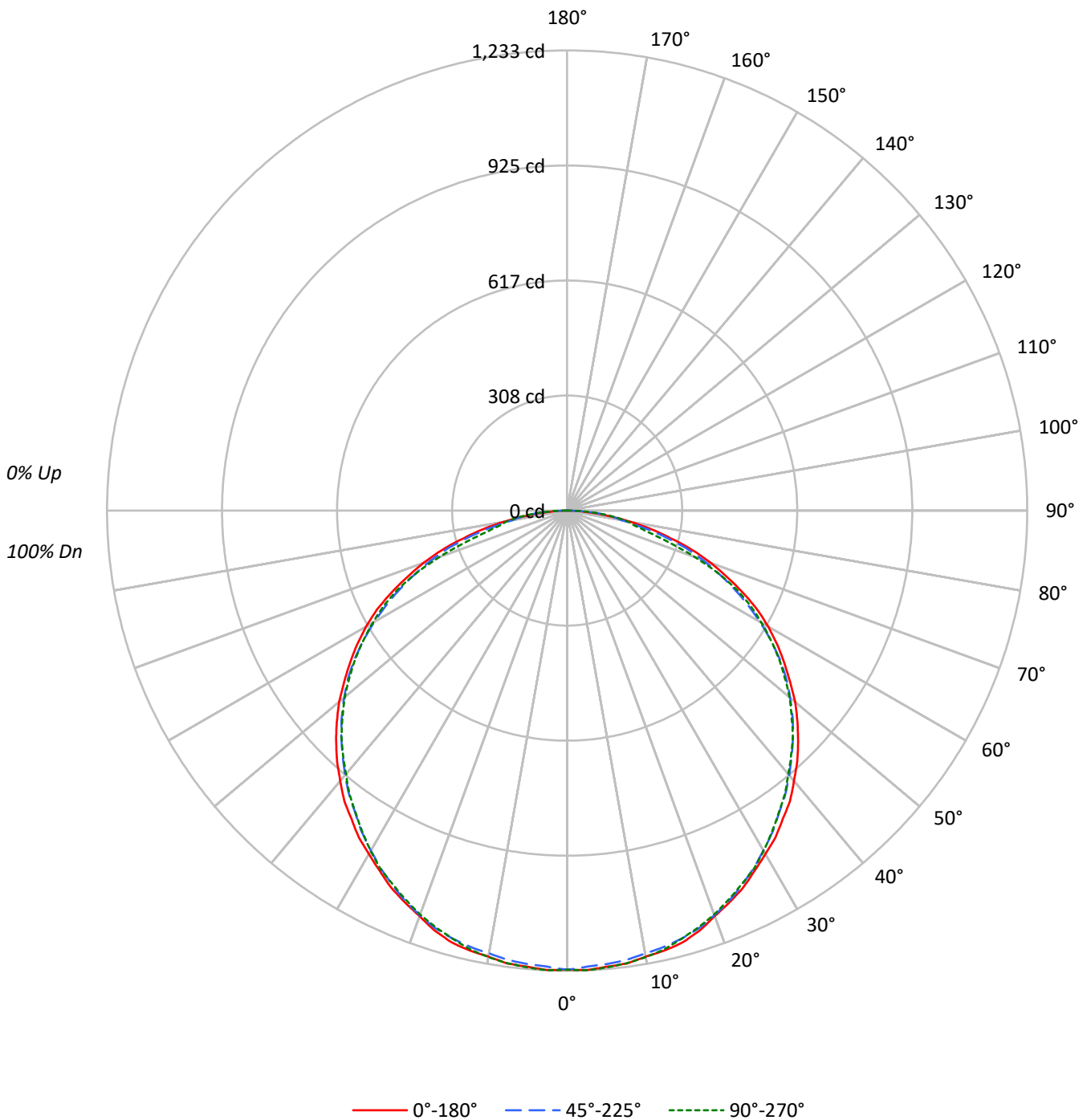
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3310	3310	3310
5°	3314	3295	3318
10°	3316	3292	3321
15°	3337	3307	3307
20°	3312	3304	3299
25°	3311	3288	3282
30°	3301	3269	3271
35°	3311	3251	3248
40°	3322	3251	3239
45°	3331	3258	3255
50°	3338	3264	3257
55°	3329	3267	3250
60°	3346	3214	3237
65°	3304	3131	3193
70°	3220	3040	2867
75°	2985	2803	2337
80°	2639	2286	2517
85°	1924	2495	2547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.1
10°-20°	335.7	9.0
20°-30°	510.8	13.7
30°-40°	623.5	16.7
40°-50°	664.4	17.8
50°-60°	622.9	16.7
60°-70°	494.8	13.2
70°-80°	281.3	7.5
80°-90°	84.4	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°	963.1	25.8
0°-40°	1586.6	42.5
0°-60°	2873.8	77.0
0°-90°	3734.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3734.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1227	1224	1220	1229	1228	117
15°	1198	1194	1187	1185	1187	337
25°	1115	1110	1107	1104	1106	514
35°	1008	999	990	992	989	632
45°	875	871	856	854	855	675
55°	710	703	696	688	693	635
65°	519	510	492	498	501	513
75°	287	284	270	240	225	306
85°	62	68	81	81	82	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.2	1230.2	1230.2	1230.2	1230.2
2.5°	1232.0	1228.4	1223.2	1234.6	1232.8
5°	1226.7	1224.0	1219.7	1229.3	1228.4
7.5°	1224.0	1218.8	1214.4	1224.9	1223.2
10°	1213.5	1214.4	1204.7	1215.3	1215.3
12.5°	1207.4	1205.6	1197.7	1201.2	1203.9
15°	1197.7	1194.2	1187.2	1185.4	1187.2
17.5°	1180.1	1176.6	1174.0	1167.9	1170.5
20°	1156.4	1158.2	1153.8	1148.5	1152.0
22.5°	1136.2	1134.5	1132.7	1127.5	1129.2
25°	1115.2	1109.9	1107.3	1103.8	1105.5
27.5°	1087.9	1084.4	1080.9	1079.2	1082.7
30°	1062.5	1057.2	1051.9	1050.2	1052.8
32.5°	1038.8	1029.1	1023.0	1023.8	1021.2
35°	1008.0	999.3	989.6	992.2	988.7
37.5°	980.8	970.3	959.7	962.4	958.0
40°	945.7	939.5	925.5	927.3	922.0
42.5°	912.3	908.8	890.4	891.3	888.6
45°	875.4	871.1	856.1	853.5	855.3
47.5°	836.8	832.4	819.3	813.1	815.7
50°	797.3	792.0	779.7	774.5	778.0
52.5°	752.5	749.9	740.2	732.3	735.0
55°	709.5	703.3	696.3	687.5	692.8
57.5°	667.3	660.3	647.1	642.8	648.0
60°	621.7	610.3	597.1	593.6	601.5
62.5°	574.3	561.1	544.4	545.3	554.9
65°	518.9	510.2	491.7	497.9	501.4
67.5°	462.7	455.7	438.2	446.9	437.3
70°	409.2	400.4	386.4	374.9	364.4
72.5°	352.1	341.6	332.8	302.9	290.6
75°	287.1	284.5	269.6	239.7	224.8
77.5°	231.8	225.7	205.5	182.6	184.4
80°	170.3	174.7	147.5	158.1	162.4
82.5°	112.4	115.0	122.1	127.3	126.4
85°	62.3	68.5	80.8	80.8	82.5
87.5°	23.7	30.7	35.1	36.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)