

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: P392988

Luminaire Tested: **14EN-LD2-18-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-49)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-18-UNV-L93050-W2A-1-U (3500K)
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1472.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

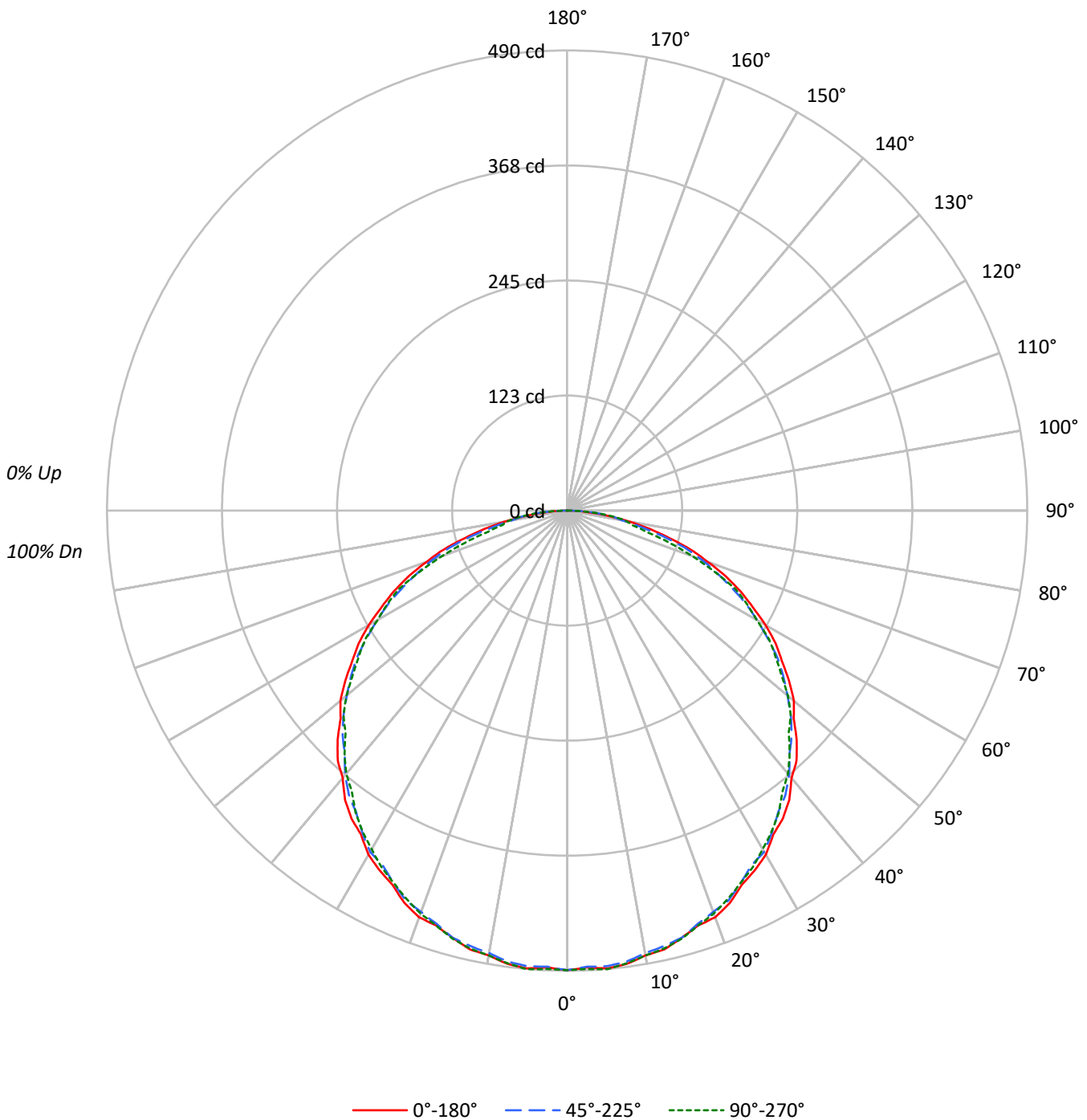
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
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°	1317	1317	1317
5°	1322	1315	1324
10°	1314	1307	1314
15°	1312	1312	1314
20°	1320	1303	1308
25°	1306	1298	1298
30°	1314	1304	1294
35°	1315	1287	1290
40°	1306	1291	1285
45°	1315	1287	1270
50°	1320	1281	1285
55°	1310	1282	1270
60°	1313	1258	1253
65°	1296	1226	1258
70°	1250	1197	1118
75°	1172	1093	910
80°	1029	913	990
85°	753	988	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	3.1
10°-20°	132.9	9.0
20°-30°	202.4	13.7
30°-40°	246.9	16.8
40°-50°	261.7	17.8
50°-60°	244.8	16.6
60°-70°	193.6	13.2
70°-80°	109.9	7.5
80°-90°	33.4	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°	381.7	25.9
0°-40°	628.6	42.7
0°-60°	1135.1	77.1
0°-90°	1472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	489	488	487	487	490	46
15°	471	470	471	468	472	133
25°	440	441	437	441	437	204
35°	400	398	392	394	393	250
45°	346	341	338	335	334	266
55°	279	278	273	270	271	251
65°	204	200	193	194	198	201
75°	113	110	105	93	88	120
85°	24	27	32	32	32	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	489.4	489.4	489.4	489.4	489.4
2.5°	486.9	491.1	486.1	492.8	488.6
5°	489.4	487.7	486.9	486.9	490.3
7.5°	486.9	484.4	484.4	482.7	486.1
10°	481.0	484.4	478.5	485.2	481.0
12.5°	478.5	476.0	475.1	475.1	477.6
15°	470.9	470.1	470.9	467.6	471.8
17.5°	463.4	467.6	461.7	467.6	463.4
20°	460.8	458.3	454.9	456.6	456.6
22.5°	452.4	447.4	449.1	445.7	447.4
25°	439.8	440.6	437.3	440.6	437.3
27.5°	432.2	431.4	425.5	428.0	428.0
30°	423.0	418.8	419.6	413.7	416.3
32.5°	408.7	408.7	406.2	406.2	405.3
35°	400.3	397.8	391.9	393.6	392.7
37.5°	388.5	382.6	381.8	376.7	376.7
40°	371.7	370.8	367.5	365.0	365.8
42.5°	361.6	358.2	350.7	352.3	350.7
45°	345.6	341.4	338.1	334.7	333.8
47.5°	327.1	327.1	322.9	320.4	322.9
50°	315.3	312.8	306.1	306.1	306.9
52.5°	297.7	294.3	290.1	287.6	287.6
55°	279.2	277.5	273.3	269.9	270.8
57.5°	263.2	259.8	253.1	253.1	254.8
60°	243.9	240.5	233.8	232.9	232.9
62.5°	222.8	221.2	214.4	213.6	216.1
65°	203.5	200.1	192.6	194.3	197.6
67.5°	182.5	177.4	171.5	173.2	169.9
70°	158.9	156.4	152.2	146.3	142.1
72.5°	137.9	133.7	131.2	119.4	114.4
75°	112.7	110.2	105.1	93.3	87.5
77.5°	90.0	88.3	79.9	69.8	70.6
80°	66.4	69.0	58.9	61.4	63.9
82.5°	44.6	45.4	47.9	50.5	50.5
85°	24.4	26.9	32.0	32.0	32.0
87.5°	10.1	12.6	14.3	14.3	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)