

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: P392980

Luminaire Tested: **14EN-LD2-18-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392980
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-L92765-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: 1386.3 lumens
Efficiency: N/A
Efficacy: 80.6 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

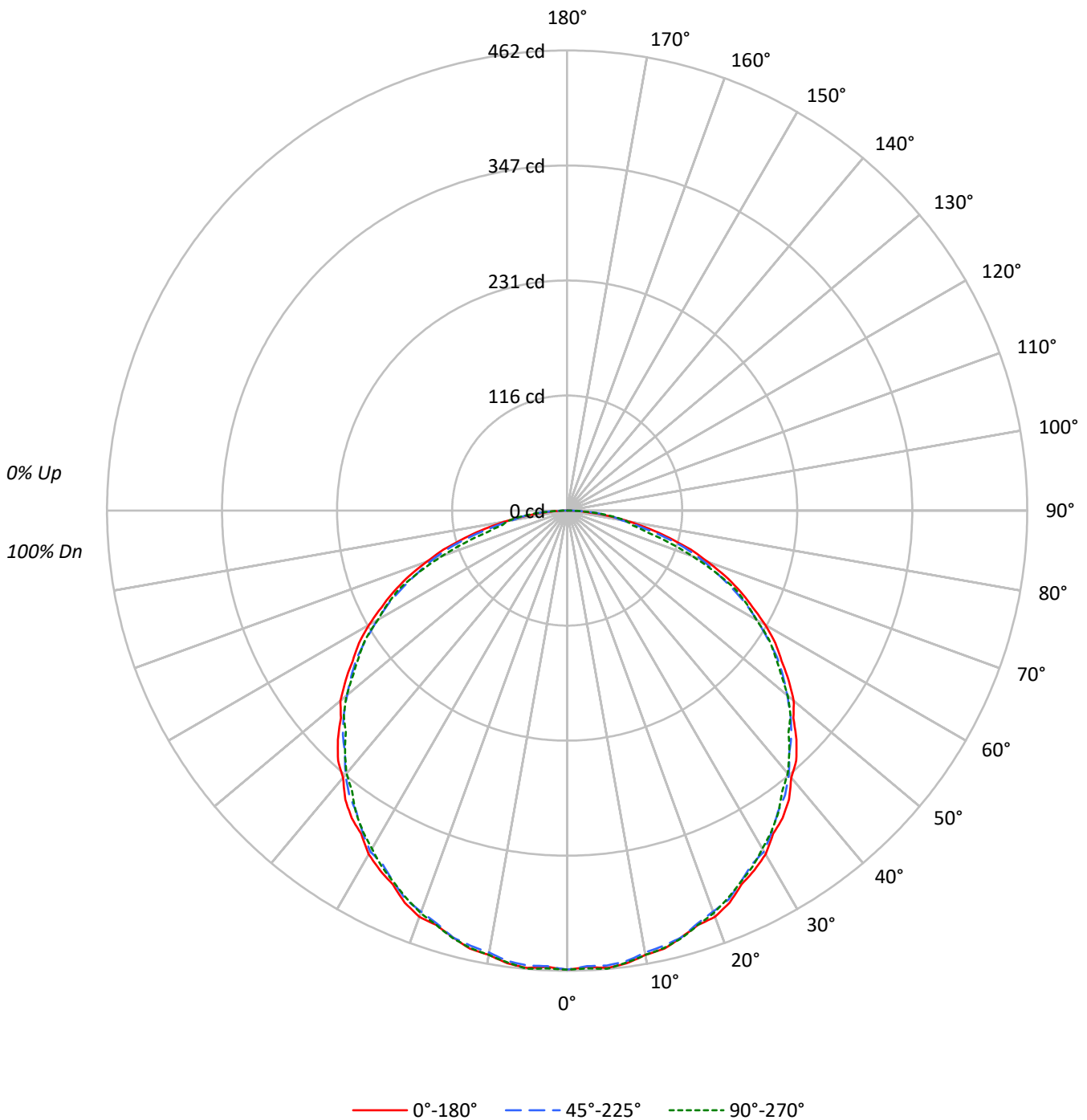
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1240	1240	1240
5°	1245	1239	1247
10°	1238	1231	1238
15°	1236	1236	1238
20°	1243	1227	1231
25°	1230	1223	1223
30°	1238	1228	1218
35°	1238	1213	1215
40°	1229	1216	1210
45°	1239	1212	1196
50°	1243	1207	1210
55°	1233	1208	1196
60°	1236	1185	1181
65°	1221	1155	1185
70°	1178	1127	1053
75°	1103	1029	857
80°	970	859	933
85°	710	929	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	3.1
10°-20°	125.2	9.0
20°-30°	190.6	13.7
30°-40°	232.5	16.8
40°-50°	246.5	17.8
50°-60°	230.5	16.6
60°-70°	182.4	13.2
70°-80°	103.5	7.5
80°-90°	31.4	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°	359.5	25.9
0°-40°	591.9	42.7
0°-60°	1069.0	77.1
0°-90°	1386.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1386.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	459	458	458	462	44
15°	444	443	444	440	444	125
25°	414	415	412	415	412	192
35°	377	375	369	371	370	235
45°	326	322	318	315	314	251
55°	263	261	257	254	255	236
65°	192	188	181	183	186	189
75°	106	104	99	88	82	113
85°	23	25	30	30	30	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	460.9	460.9	460.9	460.9	460.9
2.5°	458.5	462.5	457.7	464.1	460.1
5°	460.9	459.3	458.5	458.5	461.7
7.5°	458.5	456.2	456.2	454.6	457.7
10°	453.0	456.2	450.6	457.0	453.0
12.5°	450.6	448.2	447.5	447.5	449.8
15°	443.5	442.7	443.5	440.3	444.3
17.5°	436.4	440.3	434.8	440.3	436.4
20°	434.0	431.6	428.4	430.0	430.0
22.5°	426.1	421.3	422.9	419.7	421.3
25°	414.2	415.0	411.8	415.0	411.8
27.5°	407.1	406.3	400.7	403.1	403.1
30°	398.4	394.4	395.2	389.6	392.0
32.5°	384.9	384.9	382.5	382.5	381.7
35°	377.0	374.6	369.1	370.6	369.8
37.5°	365.9	360.3	359.5	354.8	354.8
40°	350.0	349.3	346.1	343.7	344.5
42.5°	340.5	337.4	330.2	331.8	330.2
45°	325.5	321.5	318.4	315.2	314.4
47.5°	308.1	308.1	304.1	301.7	304.1
50°	297.0	294.6	288.3	288.3	289.1
52.5°	280.4	277.2	273.2	270.8	270.8
55°	262.9	261.3	257.4	254.2	255.0
57.5°	247.9	244.7	238.4	238.4	240.0
60°	229.7	226.5	220.2	219.4	219.4
62.5°	209.9	208.3	201.9	201.2	203.5
65°	191.7	188.5	181.4	182.9	186.1
67.5°	171.9	167.1	161.6	163.1	160.0
70°	149.7	147.3	143.3	137.8	133.8
72.5°	129.9	125.9	123.5	112.5	107.7
75°	106.1	103.7	99.0	87.9	82.4
77.5°	84.7	83.2	75.2	65.7	66.5
80°	62.6	64.9	55.4	57.8	60.2
82.5°	42.0	42.8	45.1	47.5	47.5
85°	23.0	25.3	30.1	30.1	30.1
87.5°	9.5	11.9	13.5	13.5	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)