

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: P392978

Luminaire Tested: **14EN-LD2-18-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392978
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 (2700K)
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: 1313.7 lumens
Efficiency: N/A
Efficacy: 76.8 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

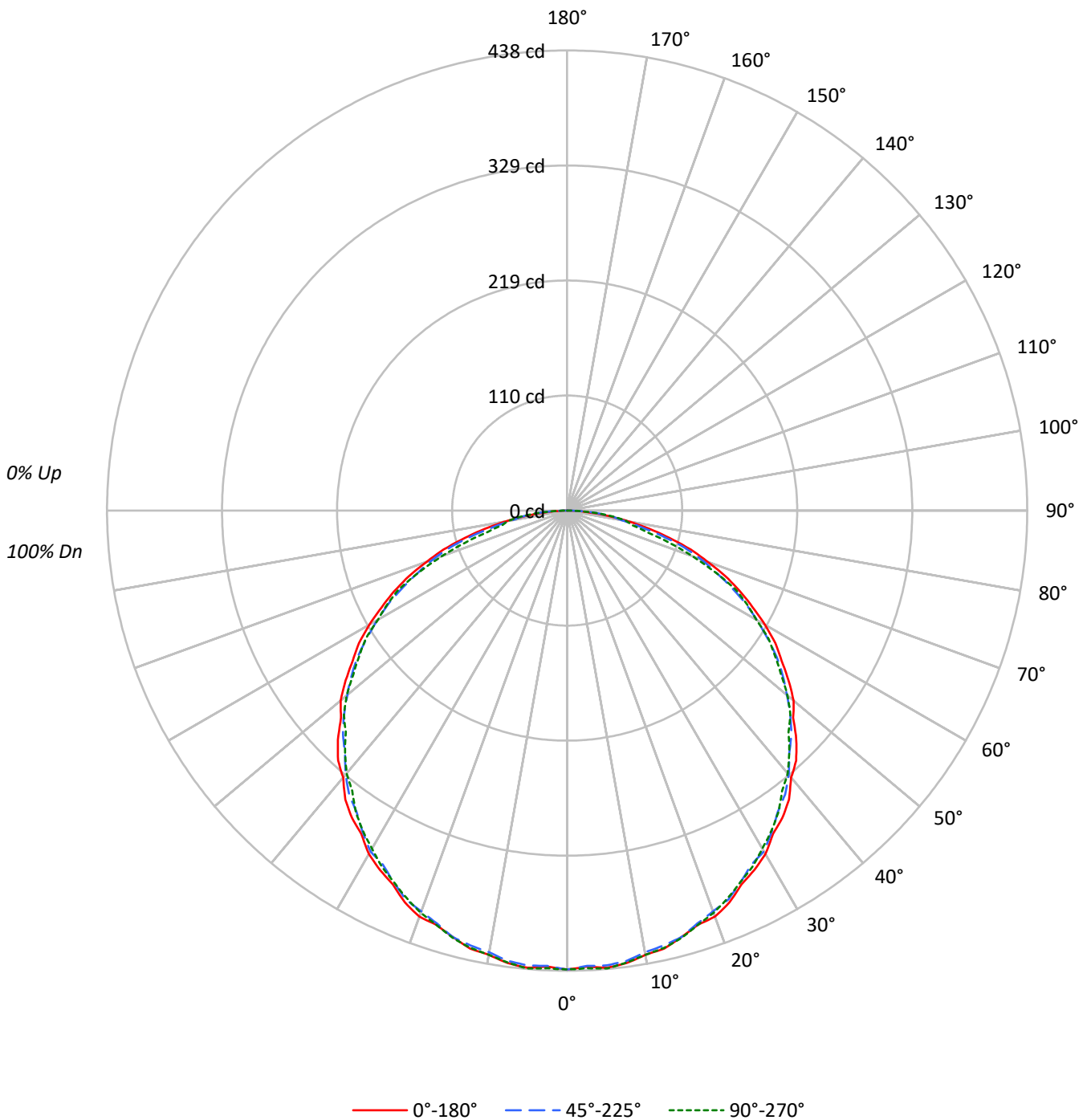
Input Watts (W): 17.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1175	1175	1175
5°	1180	1174	1182
10°	1173	1167	1173
15°	1171	1171	1173
20°	1178	1163	1167
25°	1165	1159	1159
30°	1173	1164	1154
35°	1173	1149	1151
40°	1165	1152	1147
45°	1174	1148	1134
50°	1178	1144	1147
55°	1169	1144	1134
60°	1171	1123	1119
65°	1156	1095	1123
70°	1116	1068	998
75°	1046	975	812
80°	919	814	883
85°	673	880	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	3.1
10°-20°	118.6	9.0
20°-30°	180.6	13.8
30°-40°	220.3	16.8
40°-50°	233.6	17.8
50°-60°	218.5	16.6
60°-70°	172.8	13.2
70°-80°	98.1	7.5
80°-90°	29.8	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°	340.6	25.9
0°-40°	561.0	42.7
0°-60°	1013.0	77.1
0°-90°	1313.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1313.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	437	435	434	434	438	41
15°	420	420	420	417	421	119
25°	392	393	390	393	390	182
35°	357	355	350	351	350	223
45°	308	305	302	299	298	237
55°	249	248	244	241	242	224
65°	182	179	172	173	176	179
75°	101	98	94	83	78	107
85°	22	24	28	28	28	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	436.8	436.8	436.8	436.8	436.8
2.5°	434.5	438.3	433.8	439.8	436.0
5°	436.8	435.3	434.5	434.5	437.5
7.5°	434.5	432.3	432.3	430.8	433.8
10°	429.3	432.3	427.0	433.0	429.3
12.5°	427.0	424.8	424.0	424.0	426.3
15°	420.3	419.5	420.3	417.3	421.0
17.5°	413.5	417.3	412.0	417.3	413.5
20°	411.3	409.0	406.0	407.5	407.5
22.5°	403.8	399.3	400.8	397.8	399.3
25°	392.5	393.3	390.3	393.3	390.3
27.5°	385.8	385.0	379.8	382.0	382.0
30°	377.5	373.8	374.5	369.2	371.5
32.5°	364.7	364.7	362.5	362.5	361.7
35°	357.2	355.0	349.7	351.2	350.5
37.5°	346.7	341.5	340.7	336.2	336.2
40°	331.7	331.0	328.0	325.7	326.5
42.5°	322.7	319.7	313.0	314.5	313.0
45°	308.5	304.7	301.7	298.7	298.0
47.5°	291.9	291.9	288.2	285.9	288.2
50°	281.4	279.2	273.2	273.2	273.9
52.5°	265.7	262.7	258.9	256.7	256.7
55°	249.2	247.7	243.9	240.9	241.7
57.5°	234.9	231.9	225.9	225.9	227.4
60°	217.6	214.6	208.6	207.9	207.9
62.5°	198.9	197.4	191.4	190.6	192.9
65°	181.6	178.6	171.9	173.4	176.4
67.5°	162.9	158.4	153.1	154.6	151.6
70°	141.8	139.6	135.8	130.6	126.8
72.5°	123.1	119.3	117.1	106.6	102.1
75°	100.6	98.3	93.8	83.3	78.1
77.5°	80.3	78.8	71.3	62.3	63.0
80°	59.3	61.5	52.5	54.8	57.0
82.5°	39.8	40.5	42.8	45.0	45.0
85°	21.8	24.0	28.5	28.5	28.5
87.5°	9.0	11.3	12.8	12.8	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)