

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: P392981

Luminaire Tested: **14EN-LD2-18-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392981
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 (4000K)
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: 1447.7 lumens
Efficiency: N/A
Efficacy: 83.7 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

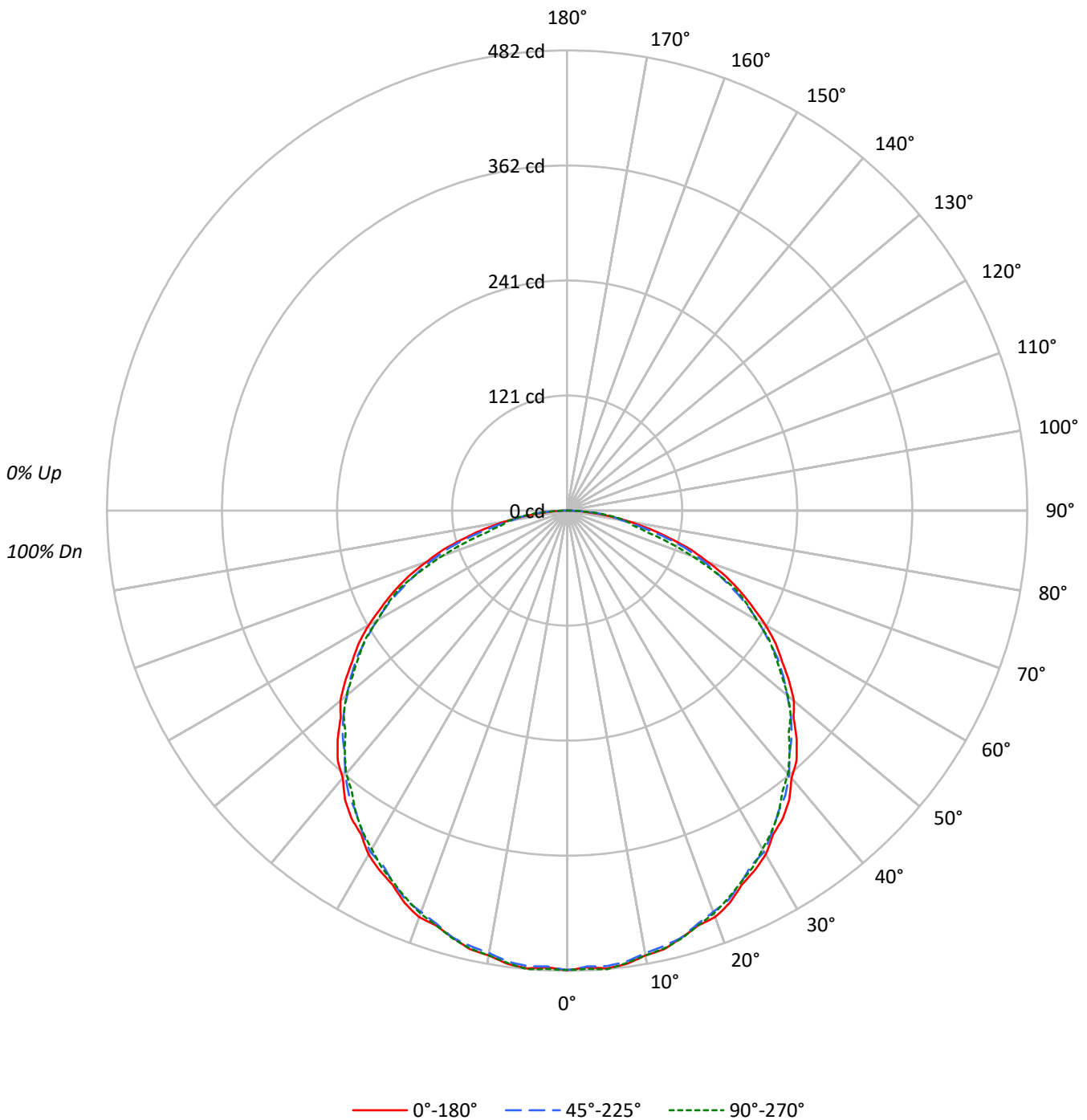
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1295	1295	1295
5°	1300	1294	1303
10°	1293	1286	1293
15°	1290	1290	1293
20°	1298	1281	1286
25°	1284	1277	1277
30°	1293	1282	1272
35°	1293	1266	1269
40°	1284	1270	1264
45°	1294	1265	1249
50°	1298	1260	1264
55°	1288	1261	1249
60°	1291	1237	1233
65°	1274	1206	1238
70°	1230	1178	1100
75°	1152	1075	894
80°	1012	897	975
85°	741	969	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	3.1
10°-20°	130.7	9.0
20°-30°	199.1	13.8
30°-40°	242.8	16.8
40°-50°	257.4	17.8
50°-60°	240.7	16.6
60°-70°	190.5	13.2
70°-80°	108.1	7.5
80°-90°	32.8	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°	375.4	25.9
0°-40°	618.2	42.7
0°-60°	1116.3	77.1
0°-90°	1447.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	481	480	479	479	482	46
15°	463	462	463	460	464	131
25°	432	433	430	433	430	200
35°	394	391	385	387	386	246
45°	340	336	332	329	328	262
55°	275	273	269	266	266	246
65°	200	197	189	191	194	197
75°	111	108	103	92	86	118
85°	24	26	31	31	31	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	481.3	481.3	481.3	481.3	481.3
2.5°	478.9	483.0	478.0	484.6	480.5
5°	481.3	479.7	478.9	478.9	482.2
7.5°	478.9	476.4	476.4	474.7	478.0
10°	473.1	476.4	470.6	477.2	473.1
12.5°	470.6	468.1	467.3	467.3	469.8
15°	463.1	462.3	463.1	459.8	464.0
17.5°	455.7	459.8	454.0	459.8	455.7
20°	453.2	450.7	447.4	449.1	449.1
22.5°	444.9	440.0	441.6	438.3	440.0
25°	432.5	433.4	430.1	433.4	430.1
27.5°	425.1	424.3	418.5	421.0	421.0
30°	416.0	411.9	412.7	406.9	409.4
32.5°	401.9	401.9	399.5	399.5	398.6
35°	393.7	391.2	385.4	387.1	386.2
37.5°	382.1	376.3	375.5	370.5	370.5
40°	365.6	364.7	361.4	358.9	359.8
42.5°	355.6	352.3	344.9	346.5	344.9
45°	339.9	335.8	332.5	329.2	328.3
47.5°	321.7	321.7	317.6	315.1	317.6
50°	310.1	307.7	301.0	301.0	301.9
52.5°	292.8	289.5	285.3	282.8	282.8
55°	274.6	272.9	268.8	265.5	266.3
57.5°	258.9	255.6	248.9	248.9	250.6
60°	239.8	236.5	229.9	229.1	229.1
62.5°	219.2	217.5	210.9	210.1	212.5
65°	200.1	196.8	189.4	191.0	194.4
67.5°	179.5	174.5	168.7	170.4	167.1
70°	156.3	153.8	149.7	143.9	139.8
72.5°	135.6	131.5	129.0	117.4	112.5
75°	110.8	108.3	103.4	91.8	86.0
77.5°	88.5	86.8	78.6	68.6	69.5
80°	65.3	67.8	57.9	60.4	62.9
82.5°	43.8	44.7	47.1	49.6	49.6
85°	24.0	26.5	31.4	31.4	31.4
87.5°	9.9	12.4	14.1	14.1	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)