

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: P392965

Luminaire Tested: **14EN-LD2-18-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392965
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-L82765-W2A-1-U (4000K)
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1635.2 lumens
Efficiency: N/A
Efficacy: 94.5 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

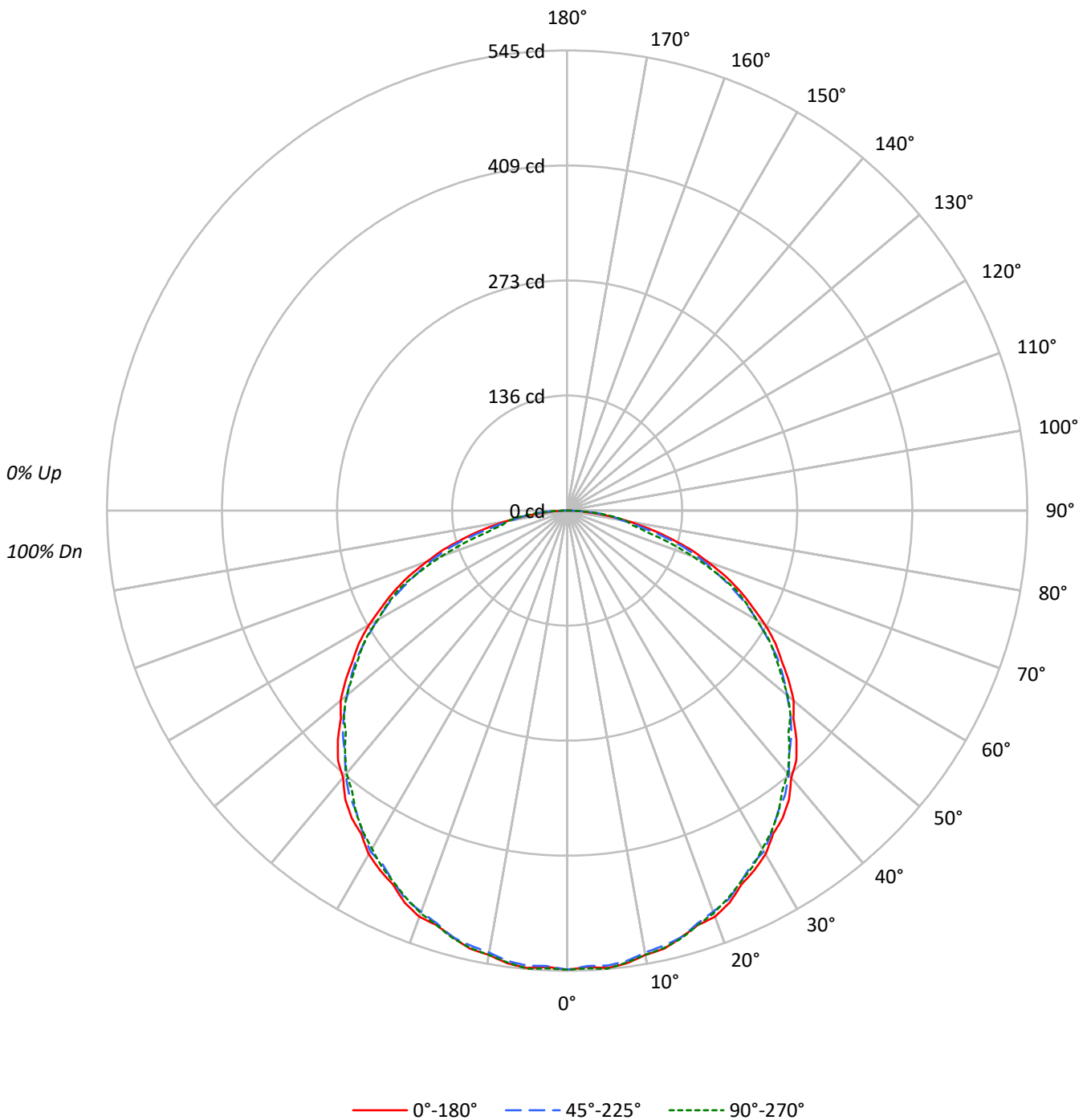
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1463	1463	1463
5°	1469	1461	1471
10°	1460	1452	1460
15°	1457	1457	1460
20°	1466	1447	1452
25°	1451	1442	1442
30°	1460	1448	1437
35°	1461	1430	1433
40°	1450	1434	1428
45°	1461	1429	1412
50°	1467	1423	1428
55°	1455	1424	1411
60°	1458	1398	1393
65°	1440	1362	1398
70°	1389	1330	1242
75°	1302	1214	1011
80°	1144	1013	1100
85°	837	1096	1096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	3.1
10°-20°	147.7	9.0
20°-30°	224.8	13.7
30°-40°	274.2	16.8
40°-50°	290.8	17.8
50°-60°	271.9	16.6
60°-70°	215.1	13.2
70°-80°	122.1	7.5
80°-90°	37.0	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°	424.0	25.9
0°-40°	698.2	42.7
0°-60°	1260.9	77.1
0°-90°	1635.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1635.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	544	542	541	541	545	52
15°	523	522	523	519	524	148
25°	489	490	486	490	486	226
35°	445	442	435	437	436	278
45°	384	379	376	372	371	296
55°	310	308	304	300	301	278
65°	226	222	214	216	220	223
75°	125	122	117	104	97	133
85°	27	30	36	36	36	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	543.7	543.7	543.7	543.7	543.7
2.5°	540.9	545.5	539.9	547.4	542.7
5°	543.7	541.8	540.9	540.9	544.6
7.5°	540.9	538.1	538.1	536.2	539.9
10°	534.3	538.1	531.5	539.0	534.3
12.5°	531.5	528.7	527.8	527.8	530.6
15°	523.1	522.2	523.1	519.4	524.1
17.5°	514.7	519.4	512.8	519.4	514.7
20°	511.9	509.1	505.4	507.2	507.2
22.5°	502.6	497.0	498.8	495.1	497.0
25°	488.6	489.5	485.8	489.5	485.8
27.5°	480.2	479.2	472.7	475.5	475.5
30°	469.9	465.2	466.1	459.6	462.4
32.5°	454.0	454.0	451.2	451.2	450.3
35°	444.7	441.9	435.3	437.2	436.2
37.5°	431.6	425.0	424.1	418.5	418.5
40°	412.9	412.0	408.2	405.4	406.4
42.5°	401.7	397.9	389.5	391.4	389.5
45°	383.9	379.3	375.5	371.8	370.9
47.5°	363.4	363.4	358.7	355.9	358.7
50°	350.3	347.5	340.0	340.0	341.0
52.5°	330.7	327.0	322.3	319.5	319.5
55°	310.1	308.3	303.6	299.9	300.8
57.5°	292.4	288.7	281.2	281.2	283.0
60°	270.9	267.2	259.7	258.8	258.8
62.5°	247.5	245.7	238.2	237.3	240.1
65°	226.1	222.3	213.9	215.8	219.5
67.5°	202.7	197.1	190.6	192.4	188.7
70°	176.6	173.8	169.1	162.5	157.9
72.5°	153.2	148.5	145.7	132.6	127.0
75°	125.2	122.4	116.8	103.7	97.2
77.5°	100.0	98.1	88.7	77.5	78.5
80°	73.8	76.6	65.4	68.2	71.0
82.5°	49.5	50.4	53.2	56.0	56.0
85°	27.1	29.9	35.5	35.5	35.5
87.5°	11.2	14.0	15.9	15.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)