

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: P392963

Luminaire Tested: **14EN-LD2-18-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392963
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 (3000K)
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: 1605.5 lumens
Efficiency: N/A
Efficacy: 92.8 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

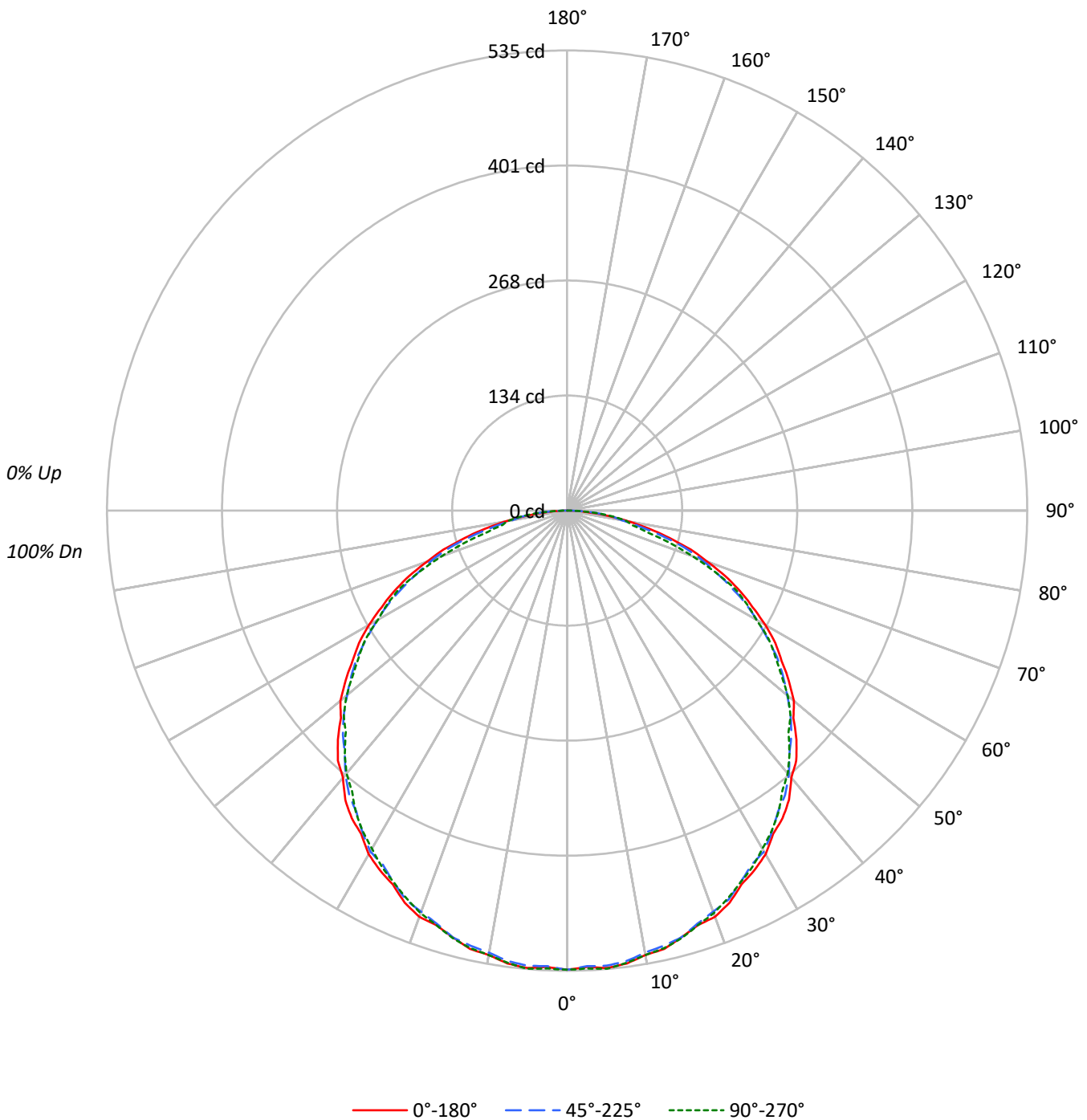
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1436	1436	1436
5°	1442	1435	1444
10°	1433	1426	1433
15°	1431	1431	1434
20°	1439	1421	1426
25°	1424	1416	1416
30°	1434	1422	1411
35°	1434	1404	1407
40°	1424	1408	1402
45°	1435	1403	1386
50°	1440	1398	1402
55°	1429	1399	1385
60°	1432	1372	1368
65°	1414	1337	1372
70°	1364	1306	1220
75°	1278	1193	992
80°	1124	995	1080
85°	821	1078	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	3.1
10°-20°	145.0	9.0
20°-30°	220.8	13.7
30°-40°	269.3	16.8
40°-50°	285.5	17.8
50°-60°	267.0	16.6
60°-70°	211.2	13.2
70°-80°	119.9	7.5
80°-90°	36.4	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°	416.3	25.9
0°-40°	685.6	42.7
0°-60°	1238.1	77.1
0°-90°	1605.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1605.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	534	532	531	531	535	51
15°	514	513	514	510	515	145
25°	480	481	477	481	477	222
35°	437	434	427	429	428	273
45°	377	372	369	365	364	290
55°	304	303	298	294	295	273
65°	222	218	210	212	216	219
75°	123	120	115	102	95	130
85°	27	29	35	35	35	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.8	533.8	533.8	533.8	533.8
2.5°	531.1	535.7	530.2	537.5	532.9
5°	533.8	532.0	531.1	531.1	534.7
7.5°	531.1	528.3	528.3	526.5	530.2
10°	524.6	528.3	521.9	529.2	524.6
12.5°	521.9	519.1	518.2	518.2	521.0
15°	513.6	512.7	513.6	510.0	514.6
17.5°	505.4	510.0	503.6	510.0	505.4
20°	502.6	499.9	496.2	498.1	498.1
22.5°	493.5	488.0	489.8	486.1	488.0
25°	479.7	480.6	477.0	480.6	477.0
27.5°	471.5	470.5	464.1	466.9	466.9
30°	461.4	456.8	457.7	451.3	454.0
32.5°	445.8	445.8	443.0	443.0	442.1
35°	436.6	433.8	427.4	429.3	428.3
37.5°	423.8	417.3	416.4	410.9	410.9
40°	405.4	404.5	400.8	398.1	399.0
42.5°	394.4	390.7	382.5	384.3	382.5
45°	377.0	372.4	368.7	365.1	364.1
47.5°	356.8	356.8	352.2	349.5	352.2
50°	344.0	341.2	333.9	333.9	334.8
52.5°	324.7	321.0	316.4	313.7	313.7
55°	304.5	302.7	298.1	294.4	295.3
57.5°	287.1	283.4	276.1	276.1	277.9
60°	266.0	262.3	255.0	254.1	254.1
62.5°	243.1	241.2	233.9	233.0	235.7
65°	222.0	218.3	210.0	211.9	215.5
67.5°	199.0	193.5	187.1	188.9	185.3
70°	173.4	170.6	166.0	159.6	155.0
72.5°	150.4	145.8	143.1	130.2	124.7
75°	122.9	120.2	114.7	101.8	95.4
77.5°	98.1	96.3	87.1	76.1	77.0
80°	72.5	75.2	64.2	67.0	69.7
82.5°	48.6	49.5	52.3	55.0	55.0
85°	26.6	29.4	34.9	34.9	34.9
87.5°	11.0	13.8	15.6	15.6	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)