

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: P393443

Luminaire Tested: **24EN-LD2-34-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-32)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-34-UNV-L82765-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3174.1 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

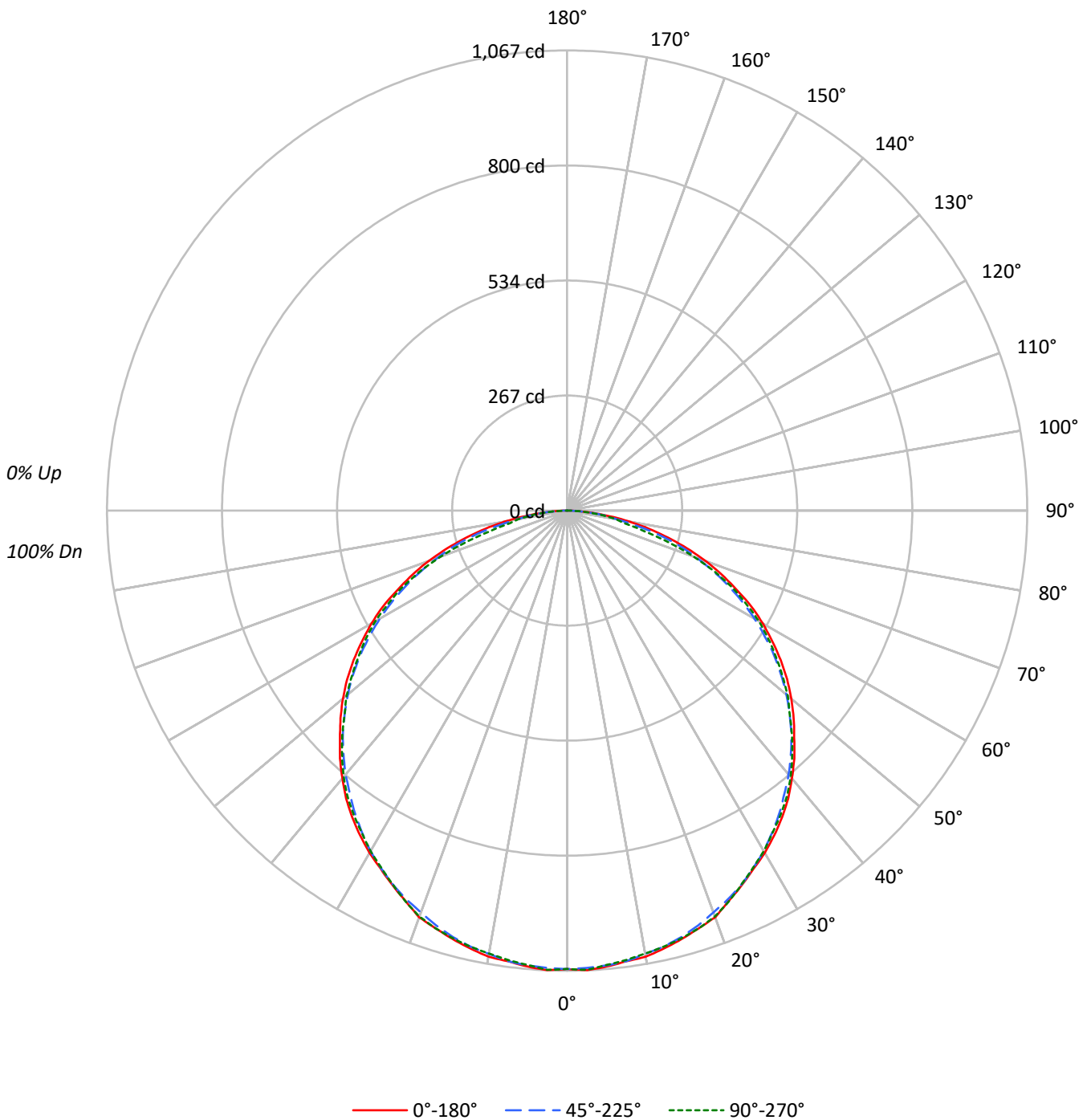
Input Watts (W): 23.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1430	1430	1430
5°	1433	1430	1428
10°	1435	1426	1425
15°	1432	1426	1430
20°	1437	1420	1434
25°	1423	1420	1420
30°	1424	1416	1416
35°	1427	1409	1416
40°	1424	1403	1416
45°	1417	1400	1403
50°	1421	1390	1398
55°	1418	1375	1386
60°	1409	1350	1382
65°	1378	1314	1346
70°	1342	1259	1231
75°	1259	1163	968
80°	1130	910	896
85°	892	821	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	3.2
10°-20°	289.2	9.1
20°-30°	441.1	13.9
30°-40°	538.2	17.0
40°-50°	569.5	17.9
50°-60°	527.8	16.6
60°-70°	414.5	13.1
70°-80°	231.3	7.3
80°-90°	61.8	1.9
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°	831.0	26.2
0°-40°	1369.2	43.1
0°-60°	2466.5	77.7
0°-90°	3174.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3174.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1061	1060	1058	1058	1058	101
15°	1028	1025	1024	1021	1026	291
25°	958	957	957	955	957	443
35°	869	862	858	856	862	543
45°	745	742	736	736	737	576
55°	604	594	586	585	591	540
65°	433	425	413	416	423	429
75°	242	233	224	195	186	256
85°	58	53	53	50	49	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1063.1	1063.1	1063.1	1063.1	1063.1
2.5°	1066.7	1063.1	1061.2	1063.1	1065.8
5°	1061.2	1060.3	1058.5	1057.6	1057.6
7.5°	1053.9	1055.7	1053.9	1051.1	1051.1
10°	1050.2	1048.4	1043.8	1042.9	1042.9
12.5°	1040.1	1037.4	1035.5	1031.9	1035.5
15°	1028.2	1025.4	1023.6	1020.9	1026.4
17.5°	1015.4	1008.9	1008.9	1008.9	1015.4
20°	1003.4	994.3	991.5	993.3	1001.6
22.5°	979.6	975.9	975.0	976.8	980.5
25°	958.5	956.7	956.7	954.8	956.7
27.5°	936.5	936.5	934.6	932.8	933.7
30°	916.3	913.5	911.7	909.9	911.7
32.5°	893.4	888.8	885.1	884.2	886.0
35°	868.6	862.2	857.6	855.8	862.2
37.5°	842.0	832.8	827.3	827.3	836.5
40°	810.8	800.7	798.9	798.0	806.2
42.5°	779.6	772.3	767.7	768.6	772.3
45°	744.8	742.0	735.6	735.6	737.4
47.5°	712.7	709.0	699.8	701.7	699.8
50°	678.7	672.3	664.1	661.3	667.7
52.5°	643.0	635.6	625.5	623.7	629.2
55°	604.4	594.4	586.1	585.2	590.7
57.5°	564.1	554.0	543.9	543.9	553.1
60°	523.7	513.6	501.7	501.7	513.6
62.5°	481.5	470.5	457.7	460.4	467.8
65°	432.9	424.7	412.7	415.5	422.8
67.5°	388.0	378.8	366.0	369.6	369.6
70°	341.2	329.3	320.1	314.6	312.8
72.5°	291.7	281.6	275.2	255.0	249.5
75°	242.1	233.0	223.8	195.4	186.2
77.5°	194.5	188.0	169.7	139.4	135.7
80°	145.8	143.1	117.4	115.6	115.6
82.5°	99.1	97.2	88.1	83.5	82.5
85°	57.8	53.2	53.2	49.5	48.6
87.5°	20.2	21.1	22.9	22.0	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)