

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: P393431

Luminaire Tested: **24EN-LD2-30-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-30-UNV-L92765-W2A-1-U (5000K)
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2575.1 lumens
Efficiency: N/A
Efficacy: 123.8 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

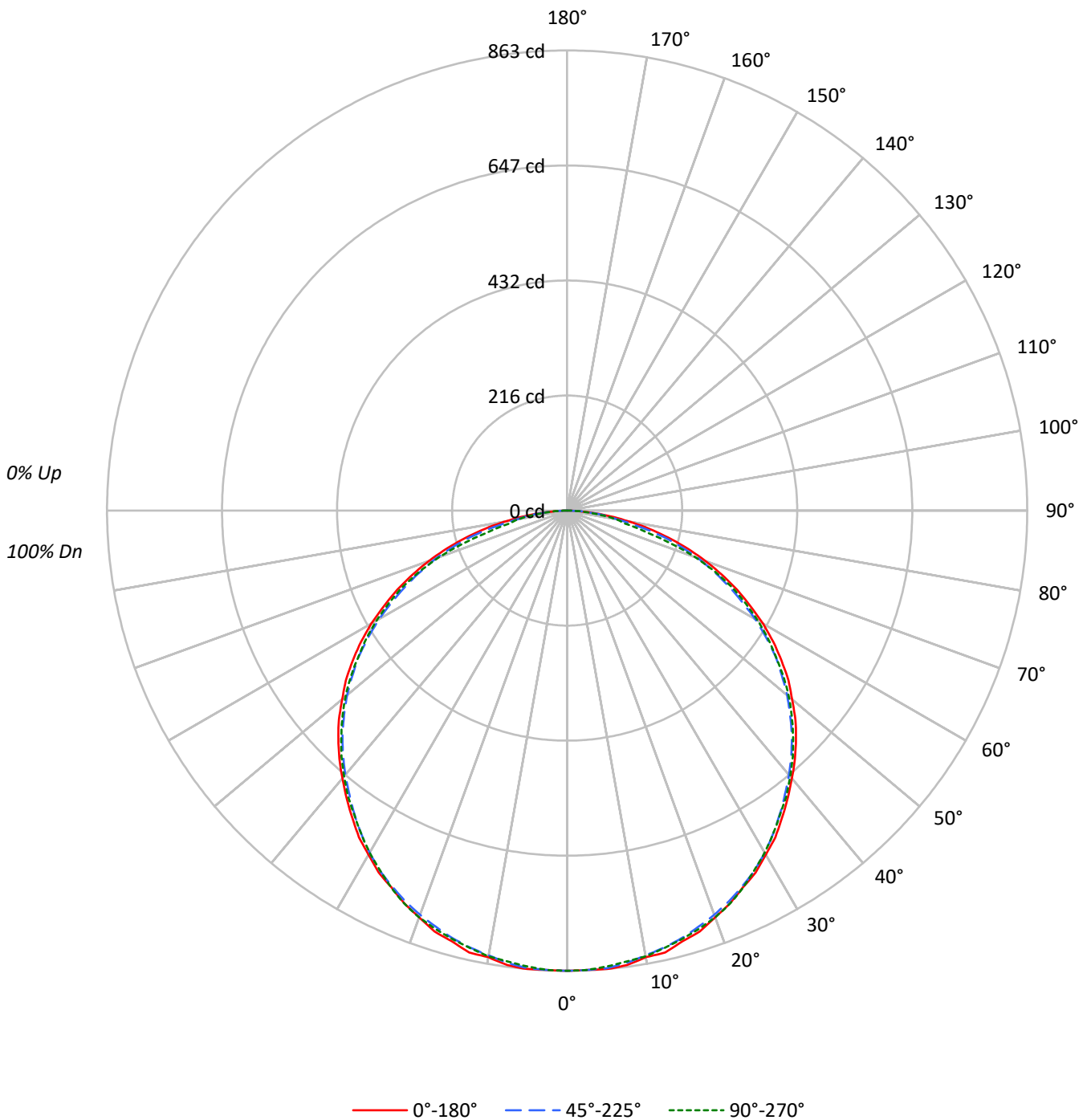
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	80	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	42	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	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1161	1161	1161
5°	1166	1163	1159
10°	1162	1157	1160
15°	1165	1157	1159
20°	1162	1155	1162
25°	1158	1154	1159
30°	1158	1151	1151
35°	1155	1142	1144
40°	1152	1137	1143
45°	1155	1134	1140
50°	1152	1127	1136
55°	1151	1119	1121
60°	1141	1095	1111
65°	1119	1060	1087
70°	1084	1028	1005
75°	1021	947	776
80°	908	738	718
85°	741	664	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.2
10°-20°	234.7	9.1
20°-30°	358.6	13.9
30°-40°	437.2	17.0
40°-50°	461.4	17.9
50°-60°	428.4	16.6
60°-70°	335.5	13.0
70°-80°	187.5	7.3
80°-90°	49.9	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°	675.2	26.2
0°-40°	1112.3	43.2
0°-60°	2002.1	77.7
0°-90°	2575.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2575.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	863	862	861	861	858	82
15°	836	831	830	829	832	236
25°	780	779	777	775	780	360
35°	703	700	695	698	696	440
45°	607	600	596	593	599	468
55°	491	484	477	475	478	438
65°	352	344	333	336	341	347
75°	196	190	182	156	149	207
85°	48	43	43	40	39	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.1	863.1	863.1	863.1	863.1
2.5°	862.3	864.0	862.3	860.6	862.3
5°	863.1	862.3	861.4	861.4	858.1
7.5°	859.8	858.1	855.5	856.4	853.0
10°	850.5	850.5	847.1	849.6	848.8
12.5°	848.8	840.4	839.5	840.4	840.4
15°	836.2	831.1	830.3	829.4	831.9
17.5°	827.7	819.3	818.5	816.8	822.7
20°	811.7	806.7	806.7	804.1	811.7
22.5°	797.4	792.3	793.2	789.8	798.2
25°	779.7	778.8	777.2	774.6	780.5
27.5°	765.4	762.0	761.1	758.6	760.3
30°	745.1	744.3	740.9	740.1	740.9
32.5°	726.6	724.1	719.0	719.8	719.0
35°	703.0	700.5	695.4	697.9	696.2
37.5°	679.4	676.8	670.9	673.5	675.2
40°	655.8	652.4	647.3	649.9	650.7
42.5°	632.2	626.3	622.1	620.4	626.3
45°	606.9	600.1	595.9	592.6	599.3
47.5°	580.8	573.2	567.3	565.6	571.5
50°	550.4	544.5	538.6	536.1	542.8
52.5°	523.4	514.2	507.4	505.7	511.6
55°	490.6	483.8	477.1	474.6	477.9
57.5°	458.5	451.0	441.7	441.7	446.7
60°	424.0	416.4	407.1	408.0	413.0
62.5°	386.9	381.8	369.2	372.6	377.6
65°	351.5	343.9	332.9	336.3	341.4
67.5°	313.6	306.8	296.7	297.5	300.1
70°	275.6	267.2	261.3	255.4	255.4
72.5°	236.0	229.3	222.5	206.5	203.1
75°	196.4	190.5	182.1	155.9	149.2
77.5°	157.6	153.4	137.4	112.9	110.4
80°	117.2	116.3	95.2	92.7	92.7
82.5°	80.9	77.5	72.5	67.4	64.9
85°	48.0	43.0	43.0	40.5	38.8
87.5°	15.2	17.7	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)