

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: P393410

Luminaire Tested: **24EN-LD2-30-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393410
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-L82765-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2775.3 lumens
Efficiency: N/A
Efficacy: 132.8 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

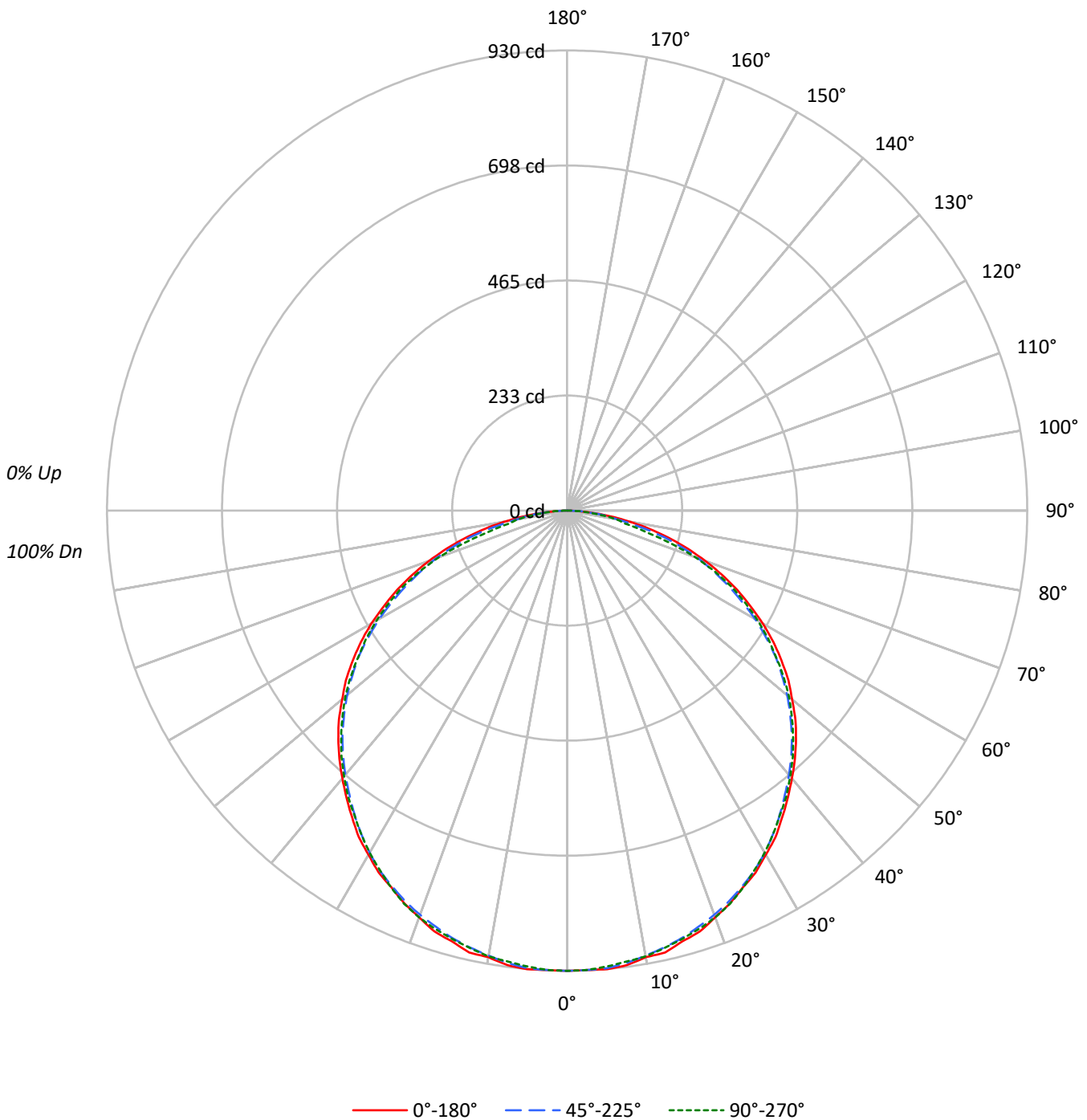
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1252	1252	1252
5°	1256	1254	1249
10°	1252	1247	1250
15°	1255	1246	1249
20°	1253	1245	1253
25°	1247	1243	1249
30°	1248	1241	1241
35°	1244	1231	1233
40°	1241	1225	1232
45°	1245	1222	1229
50°	1242	1215	1225
55°	1240	1206	1208
60°	1230	1181	1198
65°	1206	1142	1171
70°	1169	1108	1083
75°	1101	1020	836
80°	979	796	774
85°	800	715	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.2
10°-20°	253.0	9.1
20°-30°	386.5	13.9
30°-40°	471.2	17.0
40°-50°	497.3	17.9
50°-60°	461.7	16.6
60°-70°	361.6	13.0
70°-80°	202.1	7.3
80°-90°	53.8	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°	727.6	26.2
0°-40°	1198.8	43.2
0°-60°	2157.7	77.7
0°-90°	2775.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	930	929	928	928	925	88
15°	901	896	895	894	897	255
25°	840	839	838	835	841	388
35°	758	755	750	752	750	474
45°	654	647	642	639	646	504
55°	529	521	514	511	515	473
65°	379	371	359	362	368	374
75°	212	205	196	168	161	224
85°	52	46	46	44	42	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930.2	930.2	930.2	930.2	930.2
2.5°	929.3	931.1	929.3	927.5	929.3
5°	930.2	929.3	928.4	928.4	924.8
7.5°	926.6	924.8	922.1	923.0	919.3
10°	916.6	916.6	913.0	915.7	914.8
12.5°	914.8	905.7	904.8	905.7	905.7
15°	901.2	895.7	894.8	893.9	896.6
17.5°	892.1	883.0	882.1	880.3	886.6
20°	874.8	869.4	869.4	866.6	874.8
22.5°	859.4	853.9	854.8	851.2	860.3
25°	840.3	839.4	837.6	834.8	841.2
27.5°	824.9	821.2	820.3	817.6	819.4
30°	803.1	802.1	798.5	797.6	798.5
32.5°	783.1	780.3	774.9	775.8	774.9
35°	757.6	754.9	749.5	752.2	750.4
37.5°	732.2	729.5	723.1	725.8	727.7
40°	706.8	703.1	697.7	700.4	701.3
42.5°	681.3	675.0	670.4	668.6	675.0
45°	654.1	646.8	642.3	638.6	645.9
47.5°	625.9	617.7	611.4	609.6	615.9
50°	593.2	586.8	580.5	577.8	585.0
52.5°	564.1	554.1	546.9	545.1	551.4
55°	528.7	521.4	514.2	511.4	515.1
57.5°	494.2	486.0	476.0	476.0	481.5
60°	456.9	448.8	438.8	439.7	445.1
62.5°	417.0	411.5	397.9	401.5	407.0
65°	378.8	370.6	358.8	362.5	367.9
67.5°	337.9	330.7	319.8	320.7	323.4
70°	297.1	288.0	281.6	275.3	275.3
72.5°	254.4	247.1	239.8	222.6	218.9
75°	211.7	205.3	196.2	168.1	160.8
77.5°	169.9	165.3	148.1	121.7	119.0
80°	126.3	125.4	102.7	99.9	99.9
82.5°	87.2	83.6	78.1	72.7	69.9
85°	51.8	46.3	46.3	43.6	41.8
87.5°	16.4	19.1	19.1	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)