

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: P393434

Luminaire Tested: **24EN-LD2-30-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393434
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-L93050-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2637.8 lumens
Efficiency: N/A
Efficacy: 126.8 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

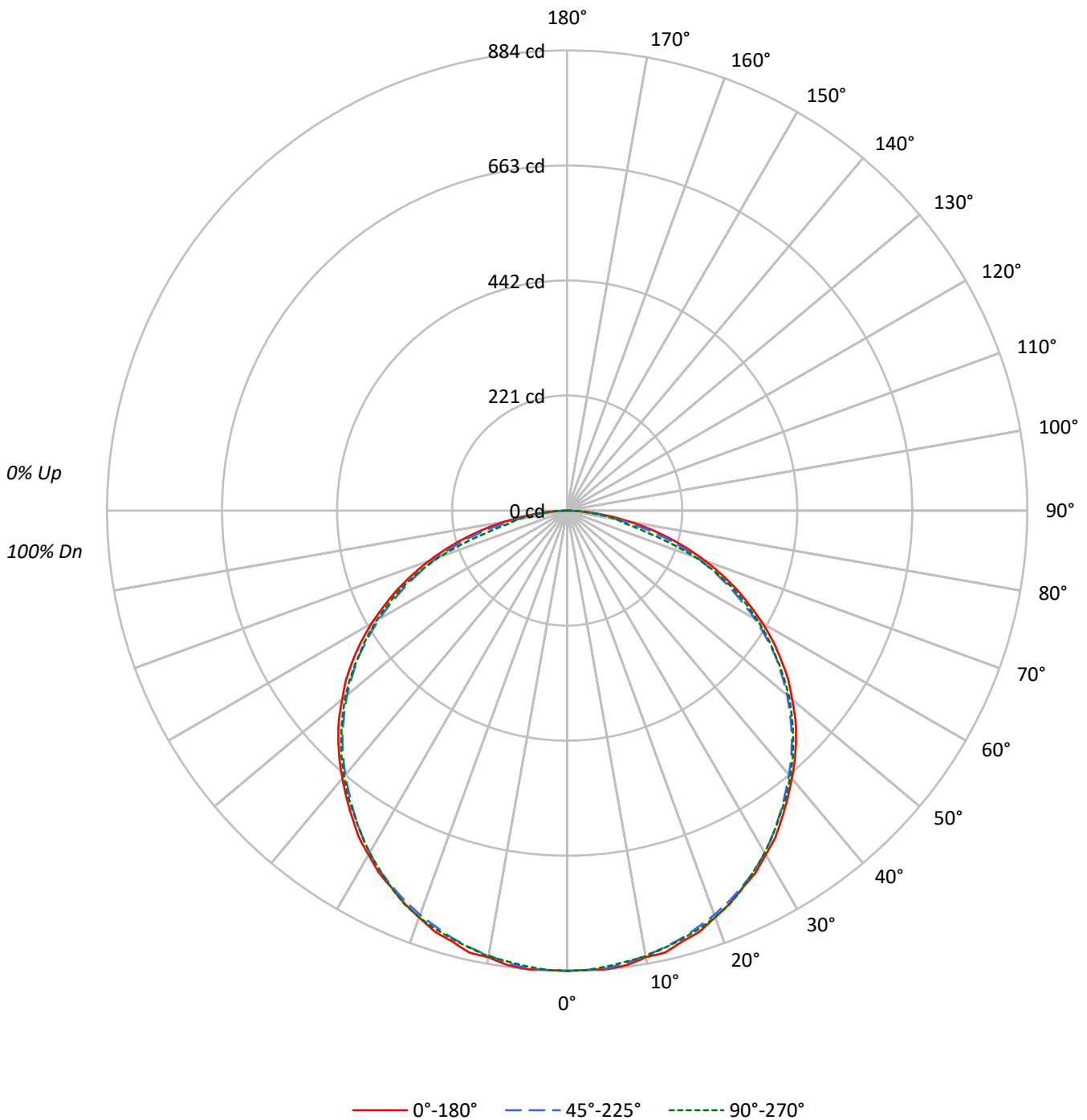
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1190	1190	1190
5°	1194	1192	1187
10°	1190	1185	1188
15°	1193	1185	1187
20°	1191	1183	1191
25°	1186	1182	1187
30°	1186	1179	1179
35°	1183	1170	1171
40°	1180	1165	1171
45°	1183	1161	1168
50°	1180	1155	1164
55°	1179	1146	1148
60°	1169	1122	1139
65°	1146	1086	1113
70°	1111	1053	1029
75°	1046	970	794
80°	930	756	736
85°	760	679	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	3.2
10°-20°	240.4	9.1
20°-30°	367.4	13.9
30°-40°	447.8	17.0
40°-50°	472.6	17.9
50°-60°	438.8	16.6
60°-70°	343.7	13.0
70°-80°	192.1	7.3
80°-90°	51.1	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°	691.6	26.2
0°-40°	1139.4	43.2
0°-60°	2050.9	77.7
0°-90°	2637.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2637.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	884	883	882	882	879	84
15°	856	851	850	850	852	242
25°	799	798	796	794	800	369
35°	720	718	712	715	713	451
45°	622	615	610	607	614	479
55°	502	496	489	486	490	449
65°	360	352	341	344	350	355
75°	201	195	186	160	153	212
85°	49	44	44	41	40	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.2	884.2	884.2	884.2	884.2
2.5°	883.3	885.0	883.3	881.6	883.3
5°	884.2	883.3	882.4	882.4	879.0
7.5°	880.7	879.0	876.4	877.2	873.8
10°	871.2	871.2	867.7	870.3	869.5
12.5°	869.5	860.8	860.0	860.8	860.8
15°	856.5	851.3	850.5	849.6	852.2
17.5°	847.9	839.3	838.4	836.7	842.7
20°	831.5	826.3	826.3	823.7	831.5
22.5°	816.8	811.6	812.5	809.0	817.7
25°	798.7	797.8	796.1	793.5	799.5
27.5°	784.0	780.5	779.7	777.1	778.8
30°	763.3	762.4	759.0	758.1	759.0
32.5°	744.3	741.7	736.5	737.4	736.5
35°	720.1	717.5	712.3	714.9	713.2
37.5°	695.9	693.3	687.3	689.9	691.6
40°	671.8	668.3	663.1	665.7	666.6
42.5°	647.6	641.5	637.2	635.5	641.5
45°	621.7	614.8	610.4	607.0	613.9
47.5°	594.9	587.1	581.1	579.4	585.4
50°	563.8	557.8	551.7	549.1	556.1
52.5°	536.2	526.7	519.8	518.1	524.1
55°	502.5	495.6	488.7	486.1	489.6
57.5°	469.7	461.9	452.4	452.4	457.6
60°	434.3	426.5	417.0	417.9	423.1
62.5°	396.3	391.1	378.2	381.6	386.8
65°	360.1	352.3	341.1	344.5	349.7
67.5°	321.2	314.3	303.9	304.8	307.4
70°	282.3	273.7	267.7	261.6	261.6
72.5°	241.8	234.9	227.9	211.5	208.1
75°	201.2	195.1	186.5	159.7	152.8
77.5°	161.5	157.1	140.7	115.7	113.1
80°	120.0	119.2	97.6	95.0	95.0
82.5°	82.9	79.4	74.3	69.1	66.5
85°	49.2	44.0	44.0	41.4	39.7
87.5°	15.5	18.1	18.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)