

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: P393460

Luminaire Tested: **24EN-LD2-34-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393460
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-L92765-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2740.6 lumens
Efficiency: N/A
Efficacy: 116.1 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

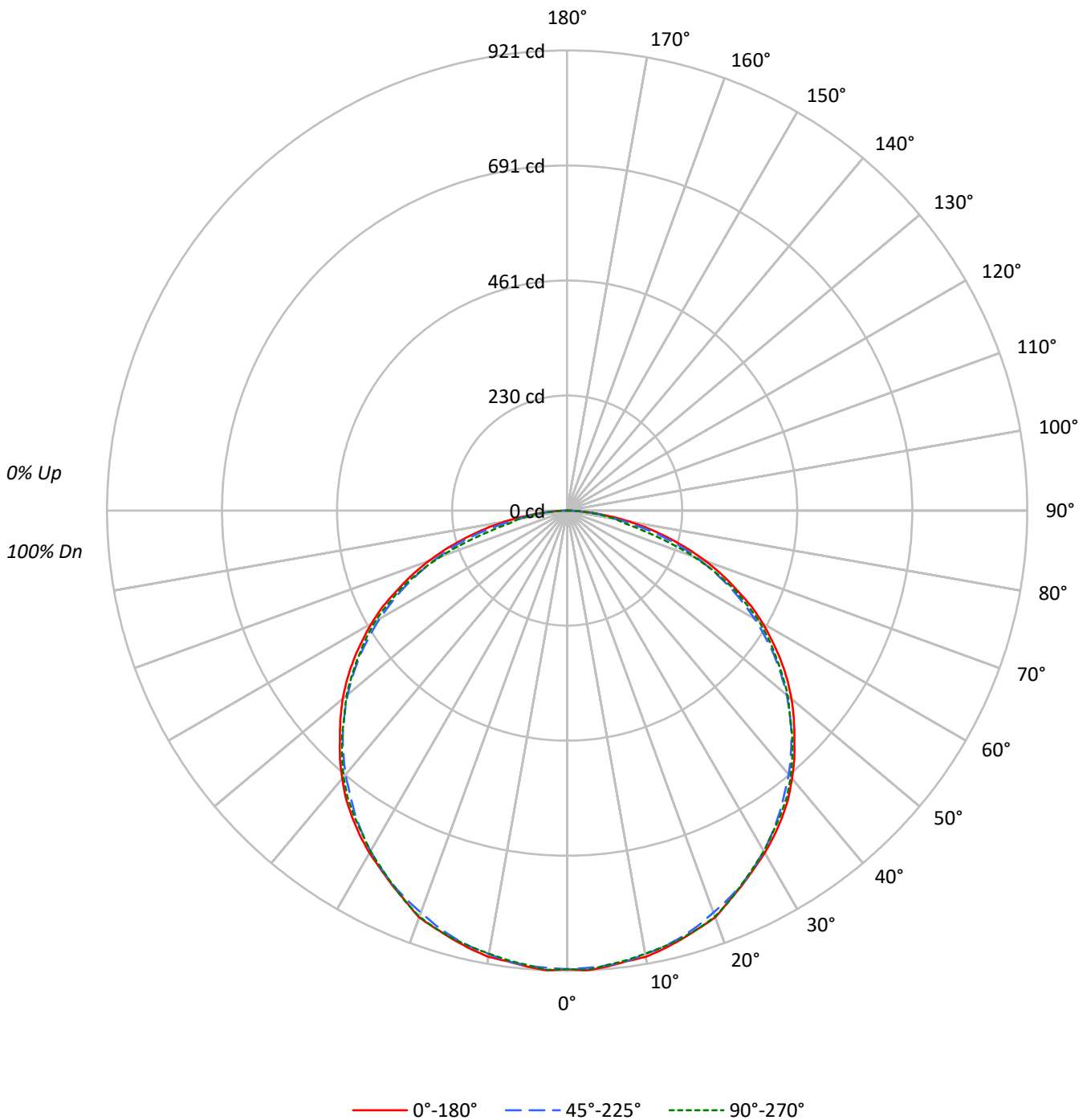
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1235	1235	1235
5°	1238	1234	1233
10°	1239	1231	1230
15°	1237	1231	1234
20°	1241	1226	1238
25°	1229	1226	1226
30°	1229	1223	1223
35°	1232	1216	1223
40°	1230	1212	1223
45°	1224	1208	1212
50°	1227	1200	1207
55°	1224	1187	1196
60°	1217	1166	1193
65°	1190	1135	1162
70°	1159	1087	1063
75°	1087	1004	836
80°	976	786	773
85°	770	709	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.2
10°-20°	249.7	9.1
20°-30°	380.9	13.9
30°-40°	464.7	17.0
40°-50°	491.7	17.9
50°-60°	455.8	16.6
60°-70°	357.9	13.1
70°-80°	199.7	7.3
80°-90°	53.3	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°	717.5	26.2
0°-40°	1182.2	43.1
0°-60°	2129.7	77.7
0°-90°	2740.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2740.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	916	916	914	913	913	87
15°	888	885	884	881	886	251
25°	828	826	826	824	826	382
35°	750	744	740	739	744	469
45°	643	641	635	635	637	497
55°	522	513	506	505	510	466
65°	374	367	356	359	365	371
75°	209	201	193	169	161	221
85°	50	46	46	43	42	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.9	917.9	917.9	917.9	917.9
2.5°	921.0	917.9	916.3	917.9	920.2
5°	916.3	915.5	913.9	913.1	913.1
7.5°	910.0	911.5	910.0	907.6	907.6
10°	906.8	905.2	901.2	900.5	900.5
12.5°	898.1	895.7	894.1	890.9	894.1
15°	887.8	885.4	883.8	881.4	886.2
17.5°	876.7	871.1	871.1	871.1	876.7
20°	866.4	858.5	856.1	857.7	864.8
22.5°	845.8	842.6	841.8	843.4	846.6
25°	827.6	826.0	826.0	824.4	826.0
27.5°	808.6	808.6	807.0	805.4	806.2
30°	791.2	788.8	787.2	785.6	787.2
32.5°	771.4	767.4	764.2	763.4	765.0
35°	750.0	744.4	740.5	738.9	744.4
37.5°	727.0	719.1	714.3	714.3	722.3
40°	700.1	691.4	689.8	689.0	696.1
42.5°	673.2	666.8	662.9	663.7	666.8
45°	643.1	640.7	635.1	635.1	636.7
47.5°	615.3	612.2	604.3	605.8	604.3
50°	586.0	580.5	573.4	571.0	576.5
52.5°	555.2	548.8	540.1	538.5	543.3
55°	521.9	513.2	506.1	505.3	510.0
57.5°	487.1	478.3	469.6	469.6	477.5
60°	452.2	443.5	433.2	433.2	443.5
62.5°	415.8	406.3	395.2	397.6	403.9
65°	373.8	366.7	356.4	358.8	365.1
67.5°	335.0	327.1	316.0	319.2	319.2
70°	294.6	284.3	276.4	271.6	270.1
72.5°	251.8	243.1	237.6	220.2	215.4
75°	209.1	201.2	193.2	168.7	160.8
77.5°	167.9	162.4	146.5	120.4	117.2
80°	125.9	123.5	101.4	99.8	99.8
82.5°	85.5	83.9	76.0	72.1	71.3
85°	49.9	45.9	45.9	42.8	42.0
87.5°	17.4	18.2	19.8	19.0	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)