

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: P393462

Luminaire Tested: **24EN-LD2-34-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393462
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 (4500K)
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: 2842.9 lumens
Efficiency: N/A
Efficacy: 120.0 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

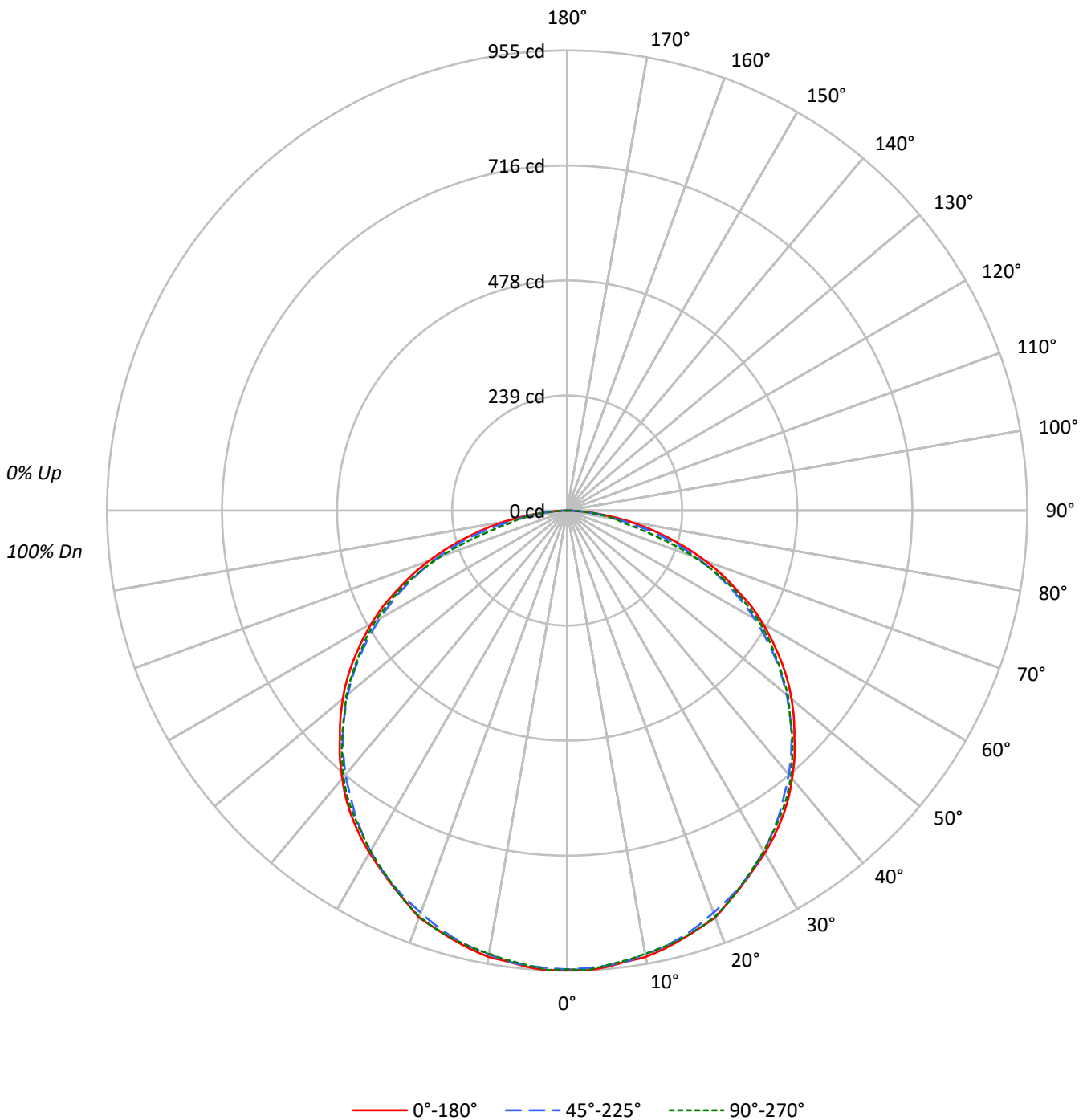
Input Watts (W): 23.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1281	1281	1281
5°	1284	1280	1279
10°	1285	1277	1276
15°	1283	1277	1280
20°	1287	1271	1285
25°	1275	1272	1272
30°	1275	1269	1269
35°	1278	1262	1268
40°	1276	1257	1268
45°	1269	1254	1257
50°	1272	1245	1252
55°	1270	1231	1241
60°	1262	1209	1238
65°	1234	1177	1206
70°	1202	1128	1102
75°	1128	1042	867
80°	1012	815	802
85°	800	735	672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.2
10°-20°	259.0	9.1
20°-30°	395.1	13.9
30°-40°	482.1	17.0
40°-50°	510.0	17.9
50°-60°	472.8	16.6
60°-70°	371.3	13.1
70°-80°	207.1	7.3
80°-90°	55.3	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°	744.3	26.2
0°-40°	1226.3	43.1
0°-60°	2209.1	77.7
0°-90°	2842.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2842.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	950	950	948	947	947	90
15°	921	918	917	914	919	260
25°	858	857	857	855	857	396
35°	778	772	768	766	772	487
45°	667	665	659	659	660	516
55°	541	532	525	524	529	483
65°	388	380	370	372	379	385
75°	217	209	200	175	167	230
85°	52	48	48	44	44	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.1	952.1	952.1	952.1	952.1
2.5°	955.4	952.1	950.5	952.1	954.6
5°	950.5	949.6	948.0	947.2	947.2
7.5°	943.9	945.5	943.9	941.4	941.4
10°	940.6	939.0	934.9	934.0	934.0
12.5°	931.6	929.1	927.5	924.2	927.5
15°	920.9	918.4	916.8	914.3	919.2
17.5°	909.4	903.6	903.6	903.6	909.4
20°	898.7	890.5	888.0	889.7	897.1
22.5°	877.4	874.1	873.2	874.9	878.2
25°	858.5	856.8	856.8	855.2	856.8
27.5°	838.7	838.7	837.1	835.5	836.3
30°	820.7	818.2	816.6	814.9	816.6
32.5°	800.1	796.0	792.7	791.9	793.6
35°	778.0	772.2	768.1	766.5	772.2
37.5°	754.1	745.9	741.0	741.0	749.2
40°	726.2	717.2	715.5	714.7	722.1
42.5°	698.3	691.7	687.6	688.4	691.7
45°	667.1	664.6	658.8	658.8	660.5
47.5°	638.3	635.0	626.8	628.4	626.8
50°	607.9	602.2	594.8	592.3	598.0
52.5°	575.9	569.3	560.3	558.6	563.5
55°	541.4	532.3	524.9	524.1	529.0
57.5°	505.2	496.2	487.1	487.1	495.4
60°	469.1	460.0	449.4	449.4	460.0
62.5°	431.3	421.4	409.9	412.4	419.0
65°	387.7	380.4	369.7	372.1	378.7
67.5°	347.5	339.3	327.8	331.1	331.1
70°	305.6	294.9	286.7	281.8	280.1
72.5°	261.2	252.2	246.4	228.4	223.4
75°	216.9	208.7	200.4	175.0	166.8
77.5°	174.2	168.4	152.0	124.9	121.6
80°	130.6	128.2	105.2	103.5	103.5
82.5°	88.7	87.1	78.9	74.8	73.9
85°	51.8	47.6	47.6	44.4	43.5
87.5°	18.1	18.9	20.5	19.7	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)