

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: P393492

Luminaire Tested: **24EN-LD2-40-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-33)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-40-UNV-L92765-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3208.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

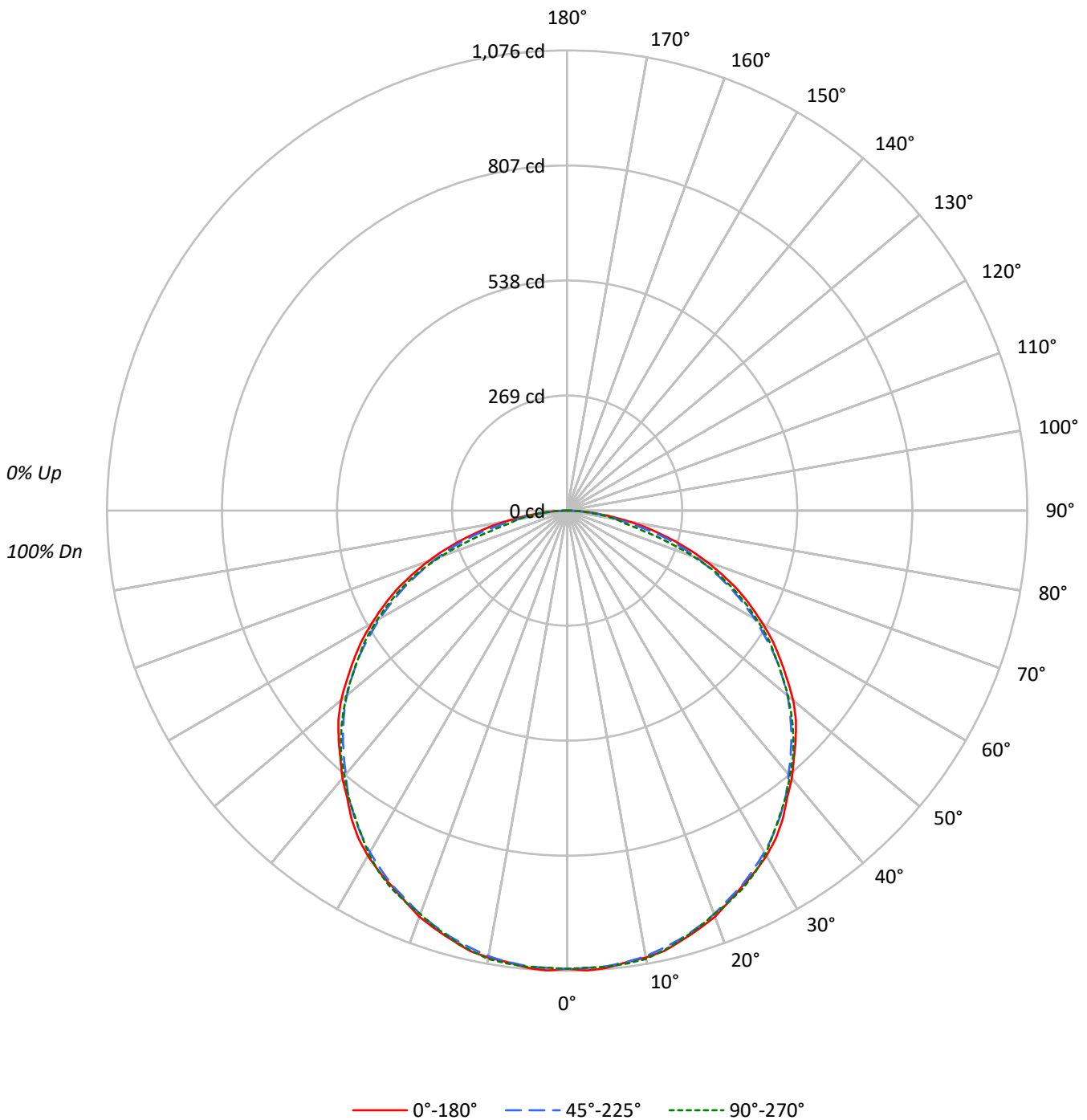
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1442	1442	1442
5°	1449	1444	1446
10°	1450	1445	1454
15°	1448	1442	1445
20°	1447	1438	1438
25°	1439	1436	1446
30°	1448	1433	1441
35°	1444	1428	1426
40°	1436	1415	1423
45°	1438	1411	1424
50°	1444	1407	1411
55°	1429	1392	1393
60°	1419	1362	1383
65°	1407	1324	1354
70°	1355	1268	1234
75°	1268	1182	963
80°	1129	914	902
85°	892	843	758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	3.2
10°-20°	292.4	9.1
20°-30°	446.5	13.9
30°-40°	544.8	17.0
40°-50°	575.2	17.9
50°-60°	533.3	16.6
60°-70°	417.8	13.0
70°-80°	233.8	7.3
80°-90°	62.4	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°	840.7	26.2
0°-40°	1385.4	43.2
0°-60°	2493.9	77.7
0°-90°	3208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1073	1073	1069	1070	1071	102
15°	1040	1035	1035	1033	1038	294
25°	969	969	967	965	974	448
35°	879	871	870	869	868	549
45°	756	748	741	740	748	583
55°	609	601	593	593	594	545
65°	442	428	416	418	425	434
75°	244	237	227	197	185	259
85°	58	55	55	52	49	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.5	1071.5	1071.5	1071.5	1071.5
2.5°	1076.3	1073.9	1070.7	1071.5	1069.9
5°	1073.1	1073.1	1069.1	1069.9	1070.7
7.5°	1065.2	1066.0	1064.4	1061.2	1068.3
10°	1061.2	1055.7	1058.0	1051.7	1064.4
12.5°	1054.1	1045.4	1047.0	1042.2	1052.5
15°	1039.8	1035.1	1035.1	1032.7	1037.5
17.5°	1025.6	1022.4	1020.8	1022.4	1022.4
20°	1010.5	1008.2	1004.2	1007.4	1004.2
22.5°	989.1	990.7	984.4	991.5	989.9
25°	969.4	969.4	967.0	965.4	974.1
27.5°	951.9	946.4	944.8	941.6	952.7
30°	932.1	921.8	922.6	917.9	927.4
32.5°	908.4	896.5	897.3	892.5	896.5
35°	879.1	871.1	869.6	868.8	868.0
37.5°	845.0	844.2	840.3	842.6	841.1
40°	817.3	815.7	805.4	807.8	810.2
42.5°	784.8	782.4	773.7	775.3	781.7
45°	755.5	748.4	741.3	739.7	748.4
47.5°	725.4	714.3	708.0	703.3	712.0
50°	689.8	680.3	672.4	667.6	674.0
52.5°	648.6	640.7	632.8	631.2	633.6
55°	609.0	601.1	593.2	593.2	594.0
57.5°	571.0	560.7	548.8	551.2	557.5
60°	527.4	517.9	506.1	506.1	514.0
62.5°	484.7	472.8	460.9	462.5	470.4
65°	441.9	428.4	415.8	418.2	425.3
67.5°	392.8	380.9	369.1	372.2	376.2
70°	344.5	332.6	322.3	319.2	313.6
72.5°	295.4	285.9	277.2	259.8	251.0
75°	243.9	236.8	227.3	197.2	185.3
77.5°	196.4	190.9	169.5	141.8	137.8
80°	145.7	145.7	118.0	115.6	116.4
82.5°	99.0	97.4	89.5	83.9	81.6
85°	57.8	55.4	54.6	51.5	49.1
87.5°	19.0	22.2	22.2	21.4	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)