

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: P393476

Luminaire Tested: **24EN-LD2-40-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393476
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-L82765-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3836.4 lumens
Efficiency: N/A
Efficacy: 136.5 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

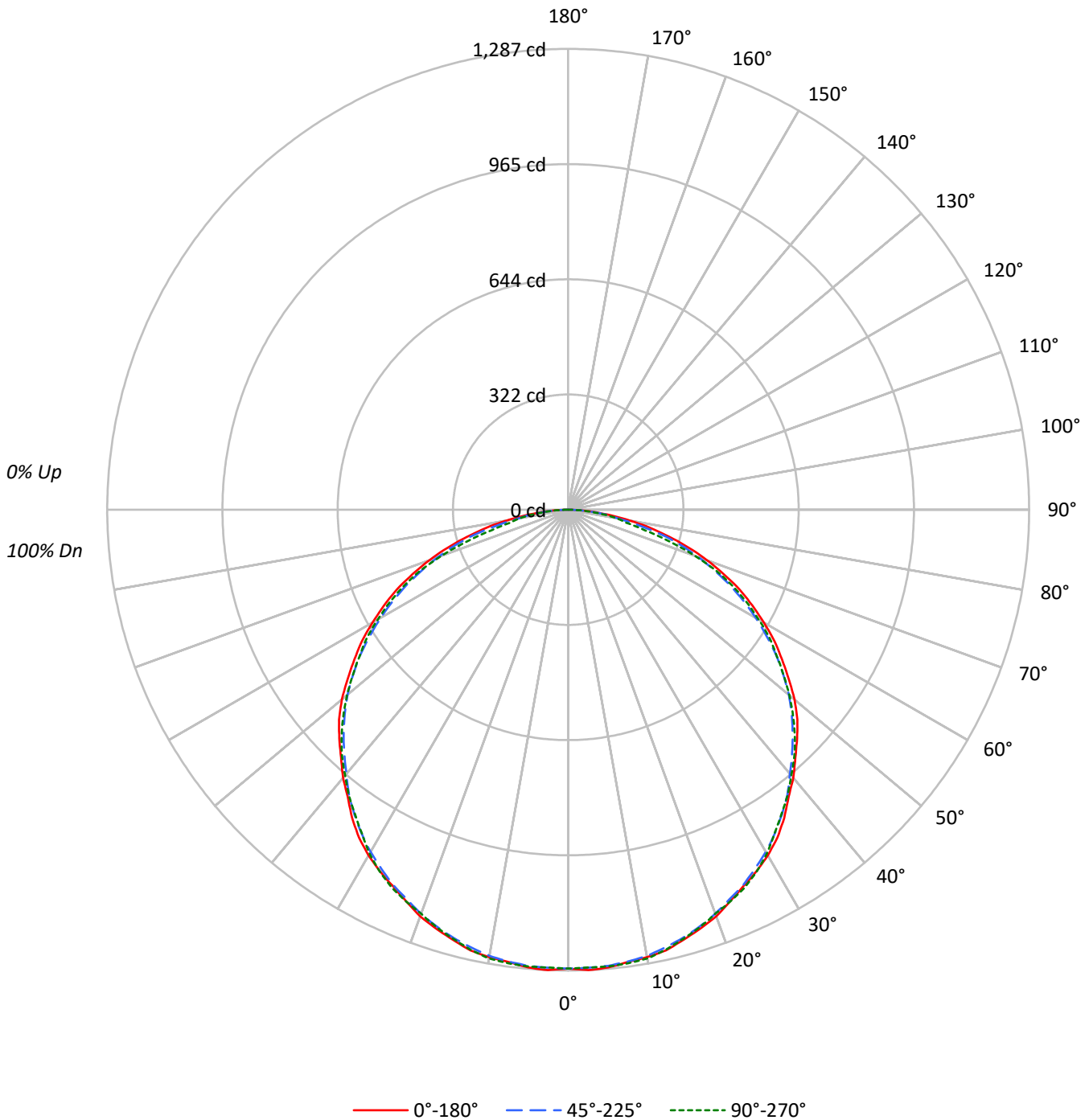
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1724	1724	1724
5°	1733	1727	1729
10°	1734	1729	1739
15°	1732	1724	1728
20°	1730	1719	1719
25°	1721	1717	1729
30°	1732	1714	1723
35°	1727	1708	1705
40°	1717	1692	1702
45°	1719	1687	1703
50°	1727	1683	1687
55°	1708	1664	1666
60°	1697	1629	1654
65°	1683	1583	1619
70°	1621	1517	1476
75°	1516	1413	1152
80°	1351	1093	1079
85°	1067	1010	906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	3.2
10°-20°	349.7	9.1
20°-30°	534.0	13.9
30°-40°	651.5	17.0
40°-50°	687.9	17.9
50°-60°	637.8	16.6
60°-70°	499.7	13.0
70°-80°	279.6	7.3
80°-90°	74.6	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°	1005.4	26.2
0°-40°	1656.9	43.2
0°-60°	2982.5	77.7
0°-90°	3836.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3836.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1283	1283	1279	1280	1280	122
15°	1244	1238	1238	1235	1241	351
25°	1159	1159	1156	1154	1165	536
35°	1051	1042	1040	1039	1038	657
45°	904	895	886	885	895	698
55°	728	719	709	709	710	652
65°	528	512	497	500	509	520
75°	292	283	272	236	222	309
85°	69	66	65	62	59	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.4	1281.4	1281.4	1281.4	1281.4
2.5°	1287.1	1284.3	1280.5	1281.4	1279.6
5°	1283.3	1283.3	1278.6	1279.6	1280.5
7.5°	1273.9	1274.8	1272.9	1269.1	1277.7
10°	1269.1	1262.5	1265.3	1257.8	1272.9
12.5°	1260.6	1250.2	1252.1	1246.4	1258.7
15°	1243.6	1237.9	1237.9	1235.0	1240.7
17.5°	1226.5	1222.7	1220.8	1222.7	1222.7
20°	1208.5	1205.7	1200.9	1204.7	1200.9
22.5°	1182.9	1184.8	1177.3	1185.8	1183.9
25°	1159.3	1159.3	1156.4	1154.5	1164.9
27.5°	1138.4	1131.8	1129.9	1126.1	1139.4
30°	1114.8	1102.4	1103.4	1097.7	1109.1
32.5°	1086.3	1072.1	1073.1	1067.4	1072.1
35°	1051.3	1041.8	1039.9	1039.0	1038.0
37.5°	1010.6	1009.6	1004.9	1007.7	1005.8
40°	977.4	975.5	963.2	966.1	968.9
42.5°	938.6	935.7	925.3	927.2	934.8
45°	903.5	895.0	886.5	884.6	895.0
47.5°	867.6	854.3	846.7	841.0	851.5
50°	824.9	813.6	804.1	798.4	806.0
52.5°	775.7	766.2	756.7	754.8	757.7
55°	728.3	718.9	709.4	709.4	710.3
57.5°	682.9	670.6	656.3	659.2	666.8
60°	630.8	619.4	605.2	605.2	614.7
62.5°	579.6	565.4	551.2	553.1	562.6
65°	528.5	512.4	497.2	500.1	508.6
67.5°	469.8	455.6	441.4	445.1	449.9
70°	412.0	397.8	385.5	381.7	375.1
72.5°	353.3	341.9	331.5	310.7	300.2
75°	291.7	283.2	271.8	235.8	221.6
77.5°	234.9	228.3	202.7	169.5	164.8
80°	174.3	174.3	141.1	138.3	139.2
82.5°	118.4	116.5	107.0	100.4	97.6
85°	69.1	66.3	65.4	61.6	58.7
87.5°	22.7	26.5	26.5	25.6	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)