

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: P393619

Luminaire Tested: **24EN-LD2-58-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-58-UNV-L92765-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4495.1 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

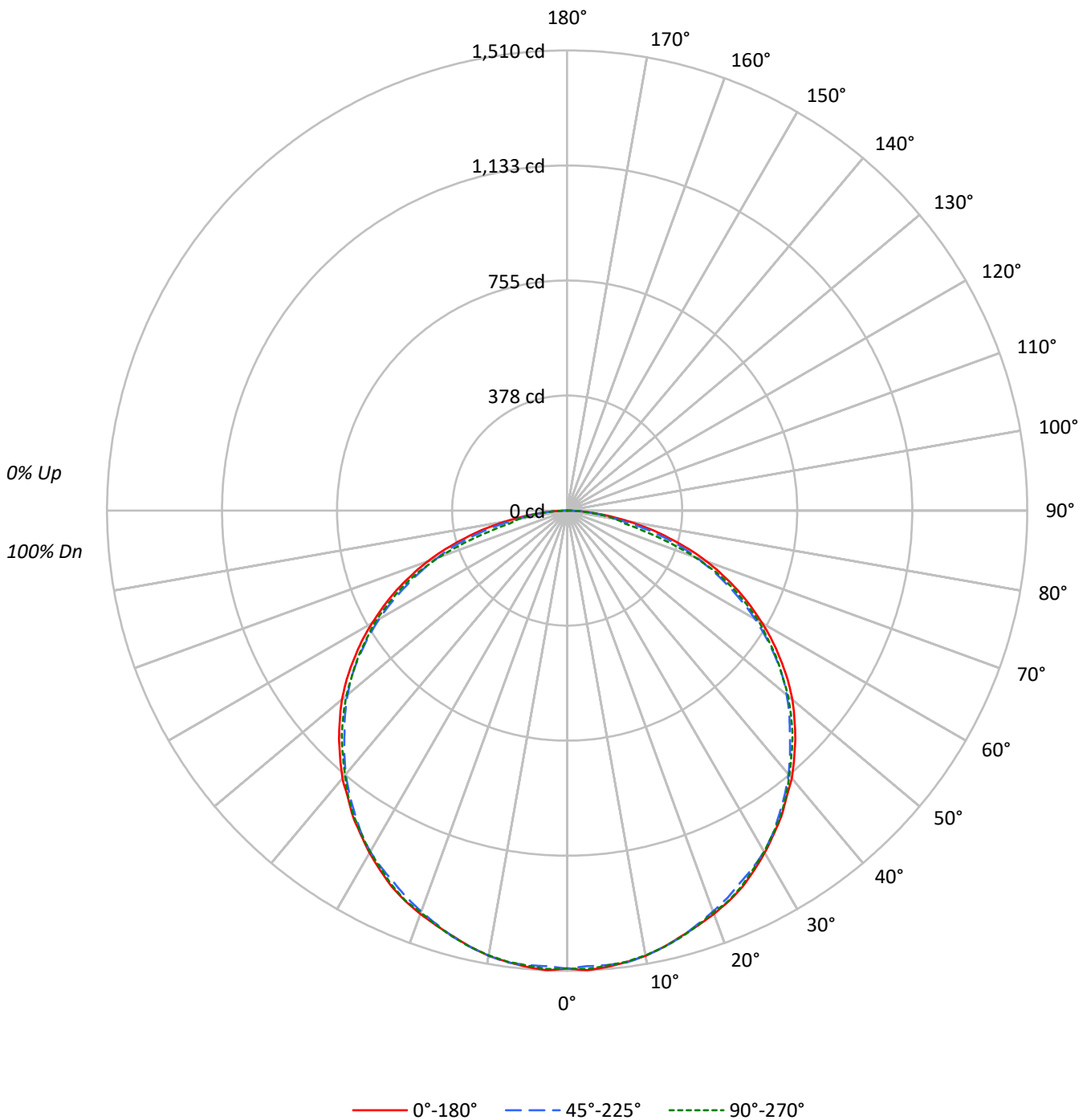
Input Watts (W): 41.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	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°	2022	2022	2022
5°	2031	2022	2024
10°	2027	2027	2024
15°	2014	2017	2018
20°	2016	2004	2010
25°	2022	1999	2016
30°	2015	2009	2009
35°	2013	1995	2007
40°	2015	1985	1992
45°	2015	1967	1990
50°	2019	1969	1980
55°	2008	1954	1965
60°	1989	1917	1954
65°	1964	1854	1905
70°	1913	1782	1754
75°	1791	1646	1368
80°	1584	1302	1272
85°	1220	1183	1076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.2
10°-20°	408.5	9.1
20°-30°	624.0	13.9
30°-40°	761.5	16.9
40°-50°	805.3	17.9
50°-60°	749.0	16.7
60°-70°	587.4	13.1
70°-80°	329.5	7.3
80°-90°	87.5	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°	1174.9	26.1
0°-40°	1936.4	43.1
0°-60°	3490.7	77.7
0°-90°	4495.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4495.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1503	1497	1497	1493	1499	143
15°	1446	1448	1448	1444	1448	409
25°	1362	1353	1346	1354	1358	627
35°	1226	1222	1215	1208	1222	766
45°	1059	1048	1034	1040	1046	817
55°	856	846	833	830	838	765
65°	617	601	582	588	598	609
75°	344	332	317	281	263	365
85°	79	76	77	71	70	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1502.6	1502.6	1502.6	1502.6	1502.6
2.5°	1509.6	1499.5	1496.4	1499.5	1505.7
5°	1503.4	1497.2	1497.2	1492.6	1498.8
7.5°	1494.1	1491.8	1495.7	1483.3	1493.3
10°	1483.3	1479.4	1483.3	1470.1	1481.7
12.5°	1466.2	1465.5	1467.0	1460.1	1467.0
15°	1446.1	1447.7	1447.7	1443.8	1448.4
17.5°	1427.5	1428.3	1423.7	1428.3	1426.8
20°	1408.2	1406.6	1399.7	1408.2	1403.5
22.5°	1387.3	1382.6	1374.9	1383.4	1385.7
25°	1361.7	1353.2	1346.3	1354.0	1357.9
27.5°	1330.0	1321.5	1320.7	1320.7	1324.6
30°	1296.7	1290.5	1292.8	1286.6	1292.8
32.5°	1260.3	1258.0	1256.5	1247.9	1257.2
35°	1225.5	1221.6	1214.6	1207.7	1221.6
37.5°	1182.9	1180.6	1173.6	1169.7	1180.6
40°	1147.3	1138.0	1130.3	1127.9	1134.1
42.5°	1102.4	1091.6	1082.3	1086.1	1089.2
45°	1059.0	1048.2	1033.5	1040.5	1045.9
47.5°	1011.8	1000.2	988.6	993.2	996.3
50°	964.6	949.9	940.6	939.8	946.0
52.5°	912.0	899.6	890.3	887.2	889.5
55°	856.2	846.1	833.0	829.9	837.6
57.5°	799.7	788.9	773.4	771.1	778.8
60°	739.3	728.5	712.2	712.2	726.2
62.5°	678.9	666.5	648.0	651.8	661.9
65°	617.0	600.7	582.2	588.4	598.4
67.5°	552.0	536.5	517.9	523.3	529.5
70°	486.2	469.1	452.9	448.2	445.9
72.5°	417.3	399.5	390.9	368.5	354.6
75°	344.5	332.1	316.6	281.0	263.2
77.5°	277.1	266.3	243.1	200.5	190.4
80°	204.4	203.6	168.0	163.3	164.1
82.5°	138.6	135.5	126.2	117.7	118.4
85°	79.0	75.9	76.6	71.2	69.7
87.5°	28.6	31.0	30.2	31.0	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)