

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: P183825

Luminaire Tested: **24SR-LD2-45-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-45-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4956.5 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

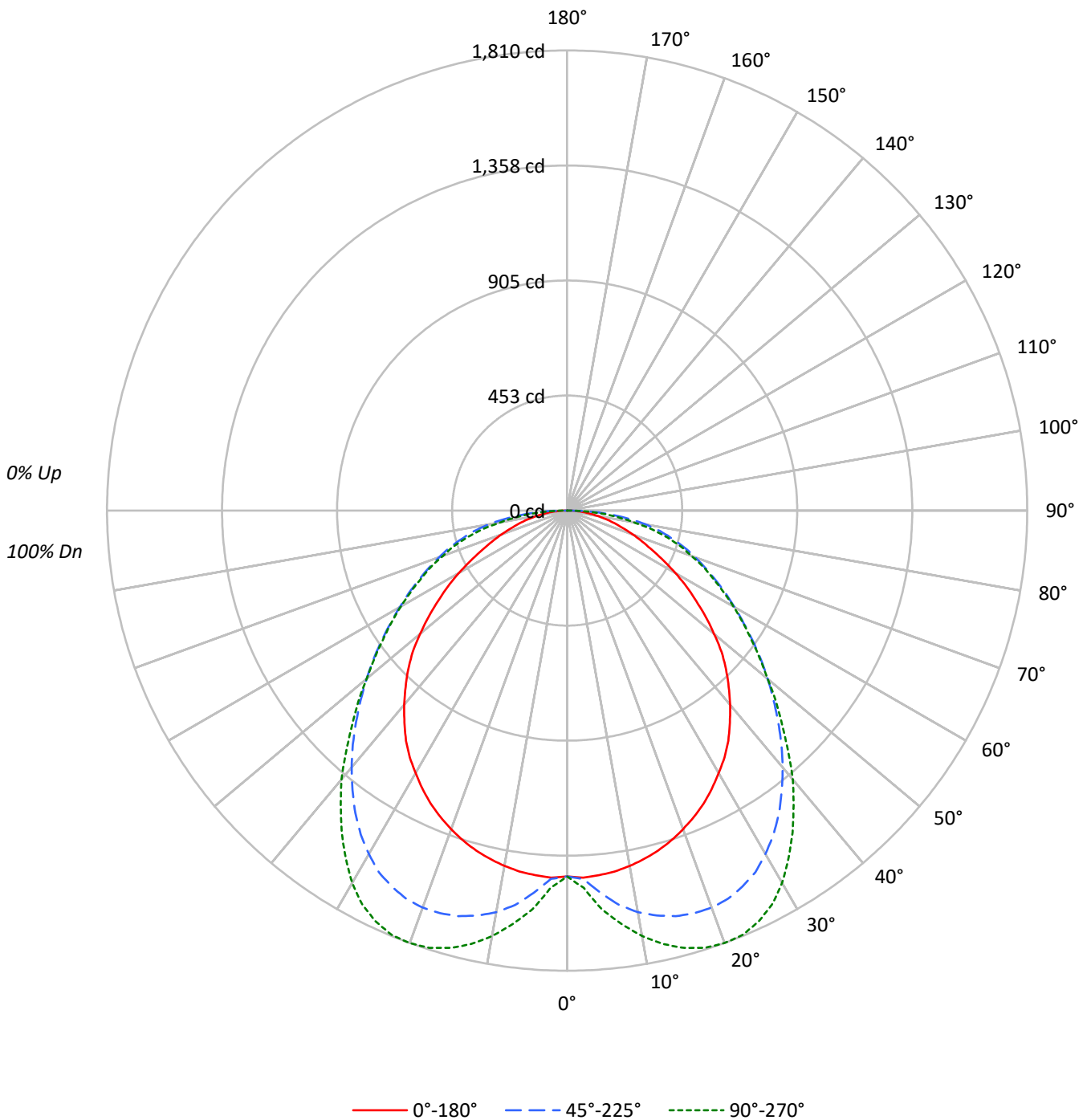
Input Watts (W): 36.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
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	46		57	50	45		55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40		52	45	39		50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1937	1937	1937
5°	1944	2038	2127
10°	1939	2191	2322
15°	1928	2301	2481
20°	1909	2380	2592
25°	1887	2422	2646
30°	1852	2424	2627
35°	1815	2386	2539
40°	1752	2316	2426
45°	1682	2233	2277
50°	1580	2155	2155
55°	1453	2087	2074
60°	1322	2046	2035
65°	1176	2046	2018
70°	1081	2105	2042
75°	1005	2230	2116
80°	946	2434	2062
85°	920	2626	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	3.0
10°-20°	460.6	9.3
20°-30°	733.5	14.8
30°-40°	874.8	17.6
40°-50°	861.7	17.4
50°-60°	744.2	15.0
60°-70°	580.8	11.7
70°-80°	398.0	8.0
80°-90°	156.2	3.2
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°	1340.8	27.1
0°-40°	2215.5	44.7
0°-60°	3821.5	77.1
0°-90°	4956.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4956.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1440	1466	1509	1566	1575	137
15°	1384	1531	1652	1755	1781	390
25°	1271	1471	1631	1755	1783	585
35°	1105	1293	1452	1535	1546	689
45°	884	1045	1173	1207	1197	680
55°	619	785	890	893	884	556
65°	369	552	643	640	634	371
75°	193	375	429	412	407	205
85°	60	180	170	145	140	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1439.5	1439.5	1439.5	1439.5	1439.5
2.5°	1445.3	1446.7	1449.6	1478.7	1484.5
5°	1439.5	1465.6	1509.2	1566.0	1574.7
7.5°	1432.2	1490.3	1564.5	1625.6	1640.1
10°	1419.1	1515.1	1603.8	1680.8	1699.7
12.5°	1403.1	1528.1	1631.4	1721.5	1746.2
15°	1384.2	1531.1	1651.7	1755.0	1781.1
17.5°	1360.9	1526.7	1660.5	1773.9	1803.0
20°	1333.3	1515.1	1661.9	1781.1	1810.2
22.5°	1304.2	1497.6	1653.2	1775.3	1805.9
25°	1270.8	1471.4	1631.4	1755.0	1782.6
27.5°	1233.0	1435.1	1603.8	1720.1	1746.2
30°	1192.3	1392.9	1560.1	1669.2	1691.0
32.5°	1151.6	1346.4	1510.7	1608.1	1621.2
35°	1105.0	1292.6	1452.5	1535.4	1545.6
37.5°	1051.2	1238.8	1387.1	1459.8	1462.7
40°	997.4	1173.4	1318.8	1372.6	1381.3
42.5°	940.7	1109.4	1247.5	1292.6	1286.8
45°	884.0	1045.4	1173.4	1206.8	1196.6
47.5°	824.4	980.0	1100.7	1122.5	1115.2
50°	754.6	914.6	1029.4	1041.1	1029.4
52.5°	687.7	852.0	959.6	965.5	955.3
55°	619.4	785.2	889.8	892.8	884.0
57.5°	556.9	722.6	823.0	823.0	818.6
60°	491.4	660.1	760.4	757.5	756.1
62.5°	428.9	604.9	702.3	697.9	693.6
65°	369.3	552.5	642.7	639.8	633.9
67.5°	319.9	503.1	587.4	583.1	580.1
70°	274.8	459.5	535.1	523.4	519.1
72.5°	231.2	415.8	484.2	466.7	468.2
75°	193.4	375.1	428.9	411.5	407.1
77.5°	155.6	333.0	375.1	347.5	341.7
80°	122.1	287.9	314.1	279.2	266.1
82.5°	90.1	238.5	244.3	210.8	202.1
85°	59.6	180.3	170.1	145.4	139.6
87.5°	32.0	106.1	91.6	74.2	69.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)