

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: P183783

Luminaire Tested: **24SR-LD2-45-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-45-C-UNV-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4512.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

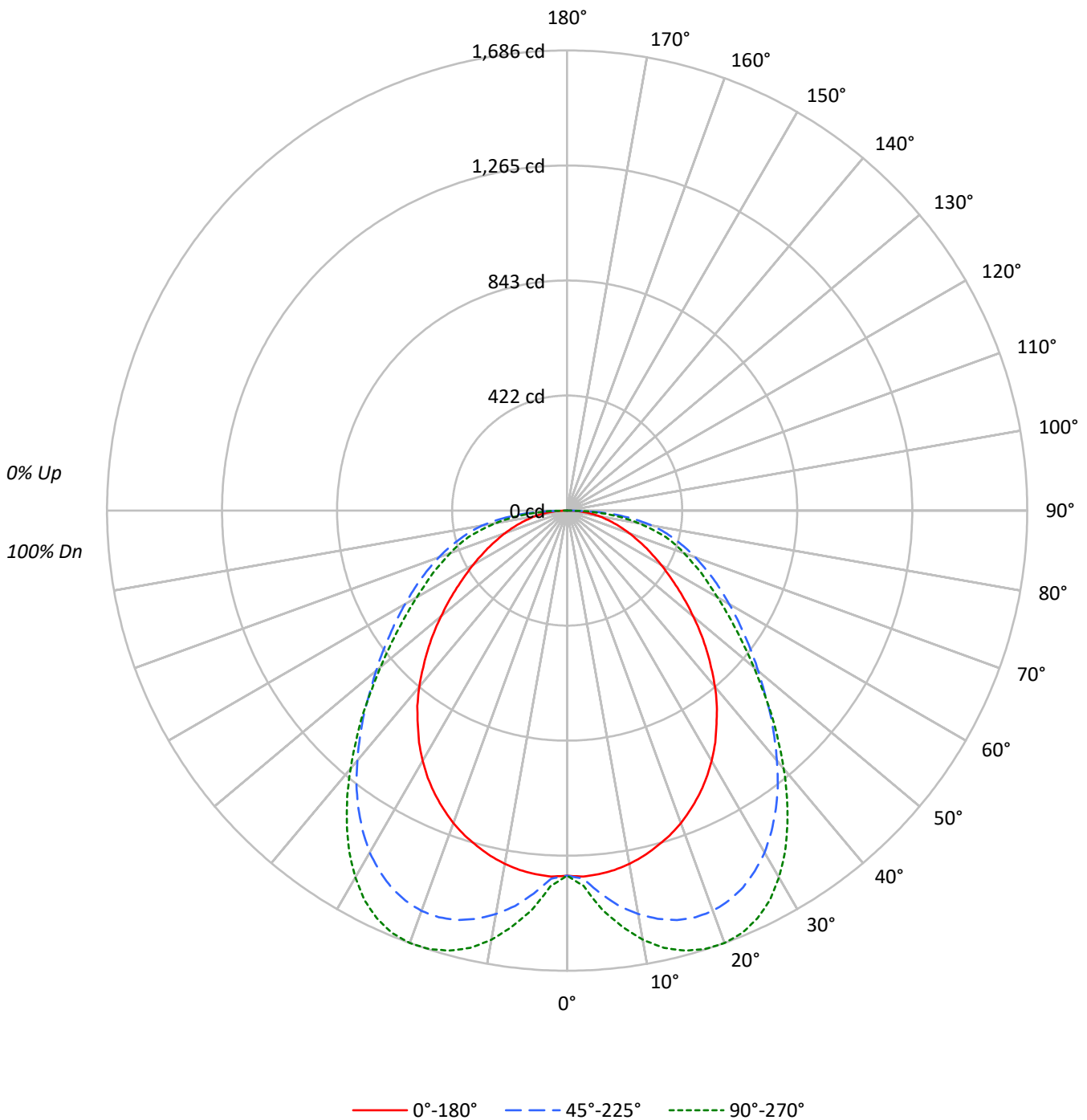
Input Watts (W): 36.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1800	1800	1800
5°	1807	1902	1981
10°	1796	2051	2181
15°	1773	2164	2325
20°	1745	2235	2414
25°	1702	2263	2448
30°	1645	2248	2411
35°	1567	2190	2311
40°	1480	2100	2168
45°	1375	2003	2017
50°	1261	1913	1868
55°	1157	1858	1764
60°	1070	1845	1713
65°	1001	1879	1727
70°	952	1964	1794
75°	921	2131	1947
80°	931	2448	2054
85°	976	2854	2237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.0
10°-20°	430.4	9.5
20°-30°	679.4	15.1
30°-40°	796.1	17.6
40°-50°	761.6	16.9
50°-60°	649.0	14.4
60°-70°	520.8	11.5
70°-80°	377.0	8.4
80°-90°	161.0	3.6
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°	1246.5	27.6
0°-40°	2042.6	45.3
0°-60°	3453.3	76.5
0°-90°	4512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1338	1362	1408	1458	1467	127
15°	1273	1425	1553	1646	1669	359
25°	1146	1367	1524	1627	1649	527
35°	954	1188	1333	1404	1407	597
45°	723	934	1052	1066	1060	557
55°	493	703	792	770	752	443
65°	314	529	590	552	542	313
75°	177	374	410	378	374	188
85°	63	188	185	153	145	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.6	1337.6	1337.6	1337.6	1337.6
2.5°	1342.2	1343.8	1349.9	1376.1	1376.1
5°	1337.6	1362.2	1408.5	1457.8	1467.0
7.5°	1328.3	1383.8	1460.9	1524.0	1536.4
10°	1314.5	1406.9	1500.9	1578.0	1596.5
12.5°	1296.0	1420.8	1531.8	1619.6	1641.2
15°	1272.9	1425.4	1553.3	1645.8	1668.9
17.5°	1248.2	1423.9	1562.6	1661.2	1684.3
20°	1218.9	1411.6	1561.0	1664.3	1685.9
22.5°	1183.5	1394.6	1547.2	1652.0	1675.1
25°	1146.5	1366.9	1524.0	1627.3	1648.9
27.5°	1104.9	1334.5	1488.6	1588.8	1608.8
30°	1058.7	1292.9	1447.0	1536.4	1551.8
32.5°	1009.4	1243.6	1393.1	1474.7	1485.5
35°	953.9	1188.1	1333.0	1403.9	1406.9
37.5°	901.5	1128.0	1268.2	1325.3	1323.7
40°	842.9	1063.3	1195.8	1242.0	1234.3
42.5°	781.3	998.6	1123.4	1155.7	1145.0
45°	722.7	933.8	1052.5	1066.4	1060.2
47.5°	662.6	869.1	978.5	989.3	970.8
50°	602.5	810.6	913.8	909.2	892.2
52.5°	547.1	756.6	852.2	838.3	819.8
55°	493.1	702.7	792.1	770.5	752.0
57.5°	442.3	654.9	738.1	708.9	691.9
60°	397.6	608.7	685.7	651.8	636.4
62.5°	354.4	567.1	636.4	601.0	585.6
65°	314.4	528.6	590.2	551.7	542.4
67.5°	275.8	490.0	544.0	507.0	496.2
70°	241.9	450.0	499.3	462.3	456.1
72.5°	208.0	413.0	454.6	420.7	416.1
75°	177.2	374.5	409.9	377.5	374.5
77.5°	146.4	332.9	365.2	326.7	319.0
80°	120.2	291.2	315.9	271.2	265.1
82.5°	90.9	240.4	252.7	212.7	209.6
85°	63.2	188.0	184.9	152.6	144.9
87.5°	33.9	112.5	98.6	78.6	75.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)