

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: P183792

Luminaire Tested: **24SR-LD2-53-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183792
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-LD2-53-C-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5158.4 lumens
Efficiency: N/A
Efficacy: 119.7 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

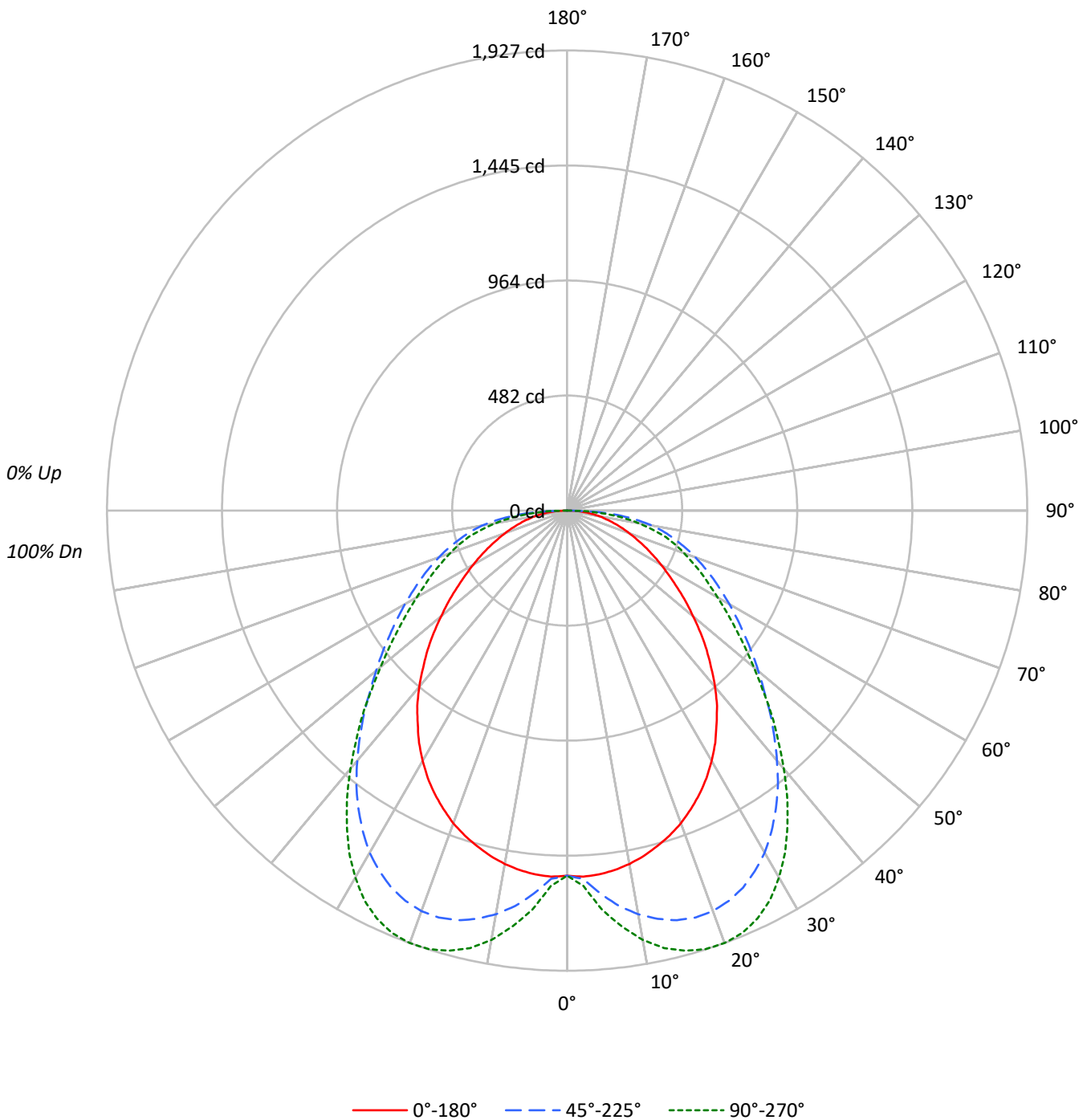
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82					82			
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2058	2058	2058
5°	2065	2175	2265
10°	2053	2344	2494
15°	2027	2474	2658
20°	1995	2555	2760
25°	1946	2587	2799
30°	1880	2570	2756
35°	1791	2503	2642
40°	1693	2401	2479
45°	1572	2290	2306
50°	1442	2187	2135
55°	1323	2124	2017
60°	1223	2110	1958
65°	1144	2148	1974
70°	1088	2245	2052
75°	1053	2436	2226
80°	1065	2799	2348
85°	1115	3264	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.0
10°-20°	492.1	9.5
20°-30°	776.7	15.1
30°-40°	910.2	17.6
40°-50°	870.8	16.9
50°-60°	742.0	14.4
60°-70°	595.4	11.5
70°-80°	431.0	8.4
80°-90°	184.0	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°	1425.1	27.6
0°-40°	2335.3	45.3
0°-60°	3948.0	76.5
0°-90°	5158.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5158.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1529	1529	1529	1529	1529	
5°	1529	1557	1610	1667	1677	145
15°	1455	1630	1776	1882	1908	410
25°	1311	1563	1742	1860	1885	603
35°	1090	1358	1524	1605	1608	682
45°	826	1068	1203	1219	1212	637
55°	564	803	906	881	860	506
65°	359	604	675	631	620	358
75°	203	428	469	432	428	215
85°	72	215	211	174	166	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1529.2	1529.2	1529.2	1529.2	1529.2
2.5°	1534.5	1536.3	1543.3	1573.3	1573.3
5°	1529.2	1557.4	1610.3	1666.7	1677.2
7.5°	1518.7	1582.1	1670.2	1742.4	1756.5
10°	1502.8	1608.5	1716.0	1804.1	1825.2
12.5°	1481.7	1624.4	1751.2	1851.6	1876.3
15°	1455.2	1629.7	1775.9	1881.6	1908.0
17.5°	1427.0	1627.9	1786.5	1899.2	1925.6
20°	1393.6	1613.8	1784.7	1902.7	1927.4
22.5°	1353.1	1594.4	1768.8	1888.6	1915.1
25°	1310.8	1562.7	1742.4	1860.4	1885.1
27.5°	1263.2	1525.7	1701.9	1816.4	1839.3
30°	1210.3	1478.1	1654.3	1756.5	1774.1
32.5°	1154.0	1421.8	1592.7	1686.0	1698.4
35°	1090.5	1358.3	1523.9	1605.0	1608.5
37.5°	1030.6	1289.6	1450.0	1515.1	1513.4
40°	963.7	1215.6	1367.1	1420.0	1411.2
42.5°	893.2	1141.6	1284.3	1321.3	1309.0
45°	826.3	1067.6	1203.3	1219.2	1212.1
47.5°	757.6	993.6	1118.7	1131.1	1109.9
50°	688.9	926.7	1044.7	1039.5	1020.1
52.5°	625.4	865.0	974.3	958.4	937.3
55°	563.8	803.4	905.6	880.9	859.8
57.5°	505.6	748.8	843.9	810.4	791.0
60°	454.5	695.9	784.0	745.2	727.6
62.5°	405.2	648.3	727.6	687.1	669.5
65°	359.4	604.3	674.8	630.7	620.1
67.5°	315.4	560.2	621.9	579.6	567.3
70°	276.6	514.4	570.8	528.5	521.5
72.5°	237.8	472.2	519.7	481.0	475.7
75°	202.6	428.1	468.6	431.6	428.1
77.5°	167.4	380.5	417.5	373.5	364.7
80°	137.4	333.0	361.2	310.1	303.0
82.5°	103.9	274.8	288.9	243.1	239.6
85°	72.2	214.9	211.4	174.4	165.6
87.5°	38.8	128.6	112.8	89.9	86.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)