

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: P183779

Luminaire Tested: **24SR-LD2-39-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183779
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-LD2-39-C-UNV-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4077.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

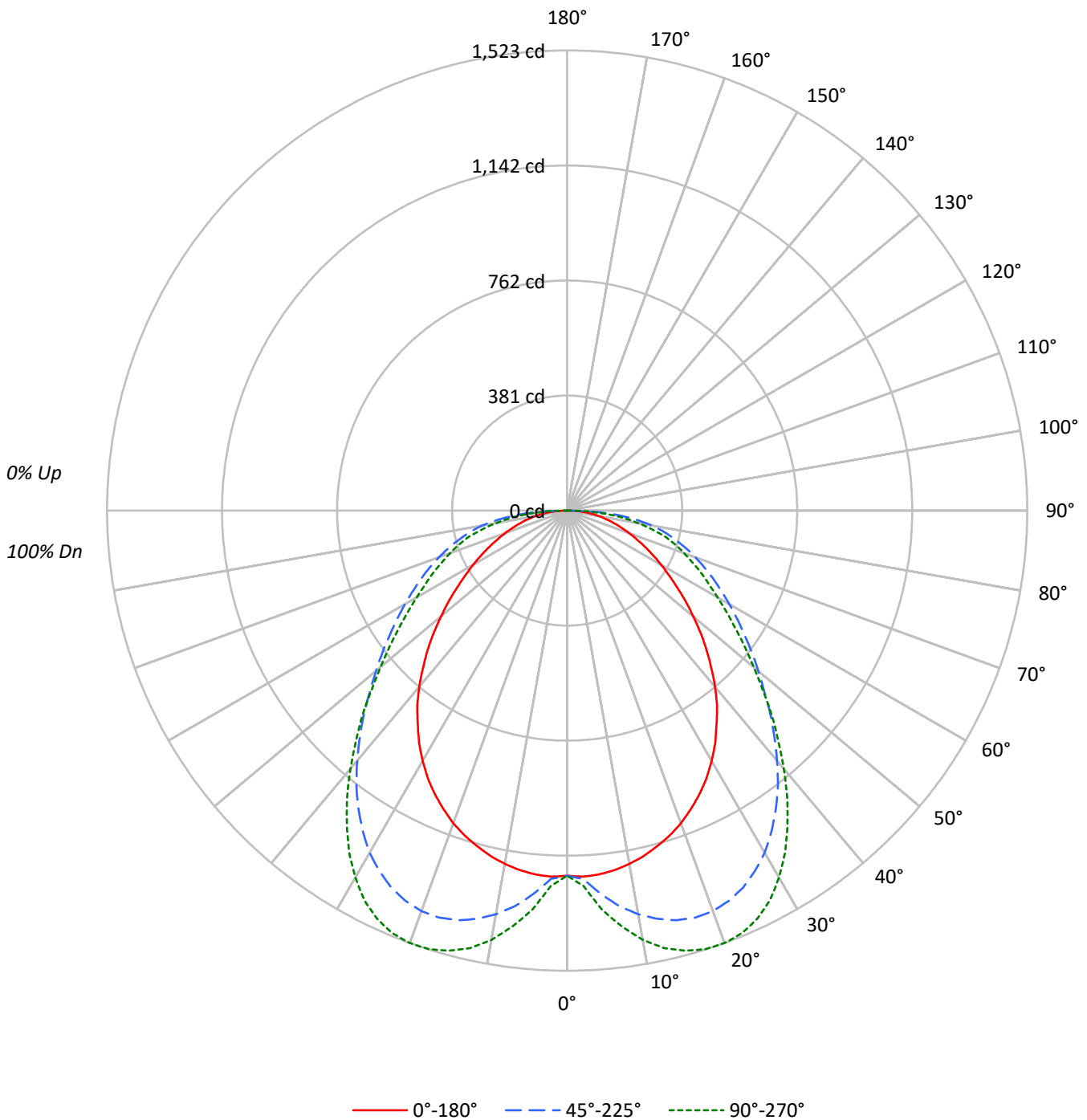
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1626	1626	1626
5°	1632	1719	1790
10°	1623	1853	1971
15°	1602	1955	2101
20°	1577	2020	2181
25°	1538	2044	2212
30°	1486	2031	2179
35°	1416	1978	2088
40°	1338	1898	1959
45°	1243	1810	1823
50°	1140	1728	1688
55°	1045	1679	1594
60°	967	1667	1548
65°	904	1698	1560
70°	860	1775	1622
75°	832	1926	1759
80°	841	2211	1856
85°	881	2580	2021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.0
10°-20°	388.9	9.5
20°-30°	613.9	15.1
30°-40°	719.4	17.6
40°-50°	688.2	16.9
50°-60°	586.4	14.4
60°-70°	470.6	11.5
70°-80°	340.6	8.4
80°-90°	145.4	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°	1126.3	27.6
0°-40°	1845.7	45.3
0°-60°	3120.3	76.5
0°-90°	4077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1209	1231	1273	1317	1326	115
15°	1150	1288	1404	1487	1508	324
25°	1036	1235	1377	1470	1490	476
35°	862	1074	1204	1268	1271	539
45°	653	844	951	964	958	503
55°	446	635	716	696	680	400
65°	284	478	533	498	490	283
75°	160	338	370	341	338	170
85°	57	170	167	138	131	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.6	1208.6	1208.6	1208.6	1208.6
2.5°	1212.8	1214.2	1219.8	1243.4	1243.4
5°	1208.6	1230.9	1272.7	1317.2	1325.6
7.5°	1200.3	1250.4	1320.0	1377.1	1388.2
10°	1187.7	1271.3	1356.2	1425.8	1442.5
12.5°	1171.0	1283.8	1384.1	1463.4	1482.9
15°	1150.1	1288.0	1403.6	1487.1	1508.0
17.5°	1127.9	1286.6	1411.9	1501.0	1521.9
20°	1101.4	1275.4	1410.5	1503.8	1523.3
22.5°	1069.4	1260.1	1398.0	1492.7	1513.6
25°	1036.0	1235.1	1377.1	1470.4	1489.9
27.5°	998.4	1205.8	1345.1	1435.6	1453.7
30°	956.6	1168.2	1307.5	1388.2	1402.2
32.5°	912.0	1123.7	1258.7	1332.5	1342.3
35°	861.9	1073.5	1204.4	1268.5	1271.3
37.5°	814.6	1019.2	1146.0	1197.5	1196.1
40°	761.6	960.8	1080.5	1122.3	1115.3
42.5°	706.0	902.3	1015.1	1044.3	1034.6
45°	653.0	843.8	951.0	963.5	958.0
47.5°	598.7	785.3	884.2	893.9	877.2
50°	544.4	732.4	825.7	821.5	806.2
52.5°	494.3	683.7	770.0	757.5	740.8
55°	445.6	634.9	715.7	696.2	679.5
57.5°	399.6	591.8	667.0	640.5	625.2
60°	359.2	550.0	619.6	589.0	575.1
62.5°	320.3	512.4	575.1	543.0	529.1
65°	284.1	477.6	533.3	498.5	490.1
67.5°	249.2	442.8	491.5	458.1	448.4
70°	218.6	406.6	451.1	417.7	412.2
72.5°	188.0	373.2	410.8	380.1	376.0
75°	160.1	338.4	370.4	341.1	338.4
77.5°	132.3	300.8	330.0	295.2	288.2
80°	108.6	263.2	285.4	245.1	239.5
82.5°	82.2	217.2	228.4	192.2	189.4
85°	57.1	169.9	167.1	137.8	130.9
87.5°	30.6	101.6	89.1	71.0	68.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)