

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: P183819

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183819
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-LD2-39-S-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: 4034.8 lumens
Efficiency: N/A
Efficacy: 126.5 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

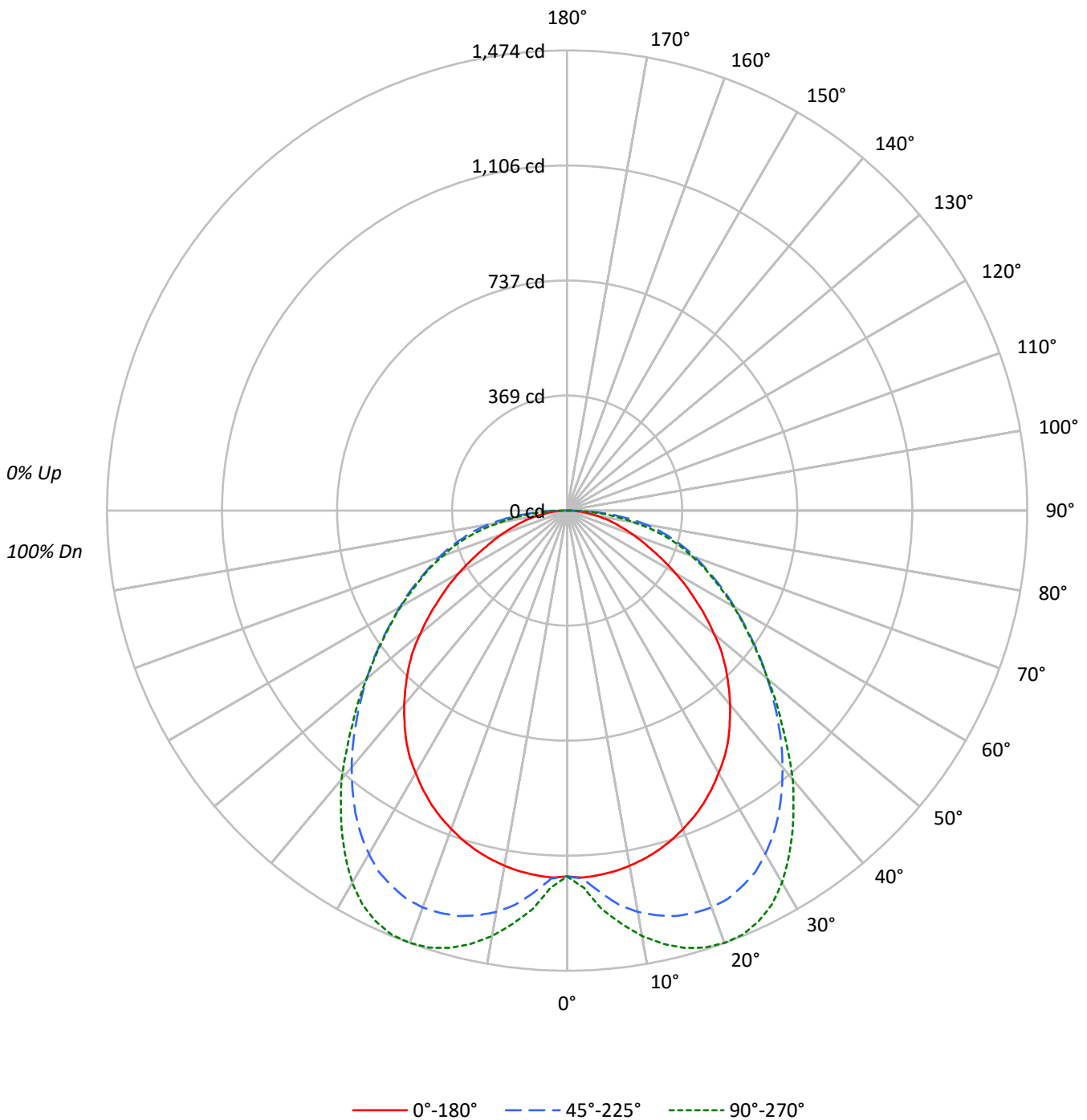
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1577	1577	1577
5°	1583	1659	1731
10°	1578	1784	1890
15°	1570	1873	2020
20°	1554	1937	2110
25°	1536	1972	2154
30°	1508	1973	2139
35°	1477	1942	2067
40°	1426	1886	1975
45°	1369	1818	1854
50°	1286	1754	1754
55°	1183	1699	1688
60°	1077	1666	1656
65°	957	1666	1643
70°	880	1714	1662
75°	818	1815	1723
80°	770	1981	1678
85°	749	2138	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.0
10°-20°	375.0	9.3
20°-30°	597.1	14.8
30°-40°	712.1	17.6
40°-50°	701.5	17.4
50°-60°	605.8	15.0
60°-70°	472.8	11.7
70°-80°	324.0	8.0
80°-90°	127.2	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°	1091.4	27.1
0°-40°	1803.5	44.7
0°-60°	3110.8	77.1
0°-90°	4034.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4034.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1172	1193	1229	1275	1282	111
15°	1127	1246	1345	1429	1450	318
25°	1034	1198	1328	1429	1451	476
35°	900	1052	1182	1250	1258	561
45°	720	851	955	982	974	554
55°	504	639	724	727	720	452
65°	301	450	523	521	516	302
75°	157	305	349	335	331	167
85°	48	147	138	118	114	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.8	1171.8	1171.8	1171.8	1171.8
2.5°	1176.5	1177.7	1180.0	1203.7	1208.5
5°	1171.8	1193.1	1228.6	1274.7	1281.8
7.5°	1165.8	1213.2	1273.6	1323.3	1335.1
10°	1155.2	1233.3	1305.5	1368.2	1383.6
12.5°	1142.2	1244.0	1328.0	1401.4	1421.5
15°	1126.8	1246.3	1344.6	1428.6	1449.9
17.5°	1107.8	1242.8	1351.7	1444.0	1467.7
20°	1085.4	1233.3	1352.9	1449.9	1473.6
22.5°	1061.7	1219.1	1345.8	1445.2	1470.0
25°	1034.5	1197.8	1328.0	1428.6	1451.1
27.5°	1003.7	1168.2	1305.5	1400.2	1421.5
30°	970.6	1133.9	1270.0	1358.8	1376.5
32.5°	937.4	1096.0	1229.8	1309.1	1319.7
35°	899.5	1052.2	1182.4	1249.9	1258.2
37.5°	855.7	1008.4	1129.2	1188.3	1190.7
40°	811.9	955.2	1073.5	1117.3	1124.4
42.5°	765.8	903.1	1015.5	1052.2	1047.5
45°	719.6	851.0	955.2	982.4	974.1
47.5°	671.1	797.7	896.0	913.7	907.8
50°	614.3	744.5	838.0	847.5	838.0
52.5°	559.8	693.6	781.2	785.9	777.6
55°	504.2	639.1	724.4	726.7	719.6
57.5°	453.3	588.2	669.9	669.9	666.4
60°	400.1	537.4	619.0	616.7	615.5
62.5°	349.2	492.4	571.7	568.1	564.6
65°	300.6	449.8	523.2	520.8	516.0
67.5°	260.4	409.5	478.2	474.6	472.3
70°	223.7	374.0	435.6	426.1	422.5
72.5°	188.2	338.5	394.1	379.9	381.1
75°	157.4	305.4	349.2	335.0	331.4
77.5°	126.6	271.0	305.4	282.9	278.1
80°	99.4	234.4	255.7	227.3	216.6
82.5°	73.4	194.1	198.8	171.6	164.5
85°	48.5	146.8	138.5	118.4	113.6
87.5°	26.0	86.4	74.6	60.4	56.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)