

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: P183813

Luminaire Tested: **24SR-LD2-34-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183813
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-LD2-34-S-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: 3428.2 lumens
Efficiency: N/A
Efficacy: 126.0 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

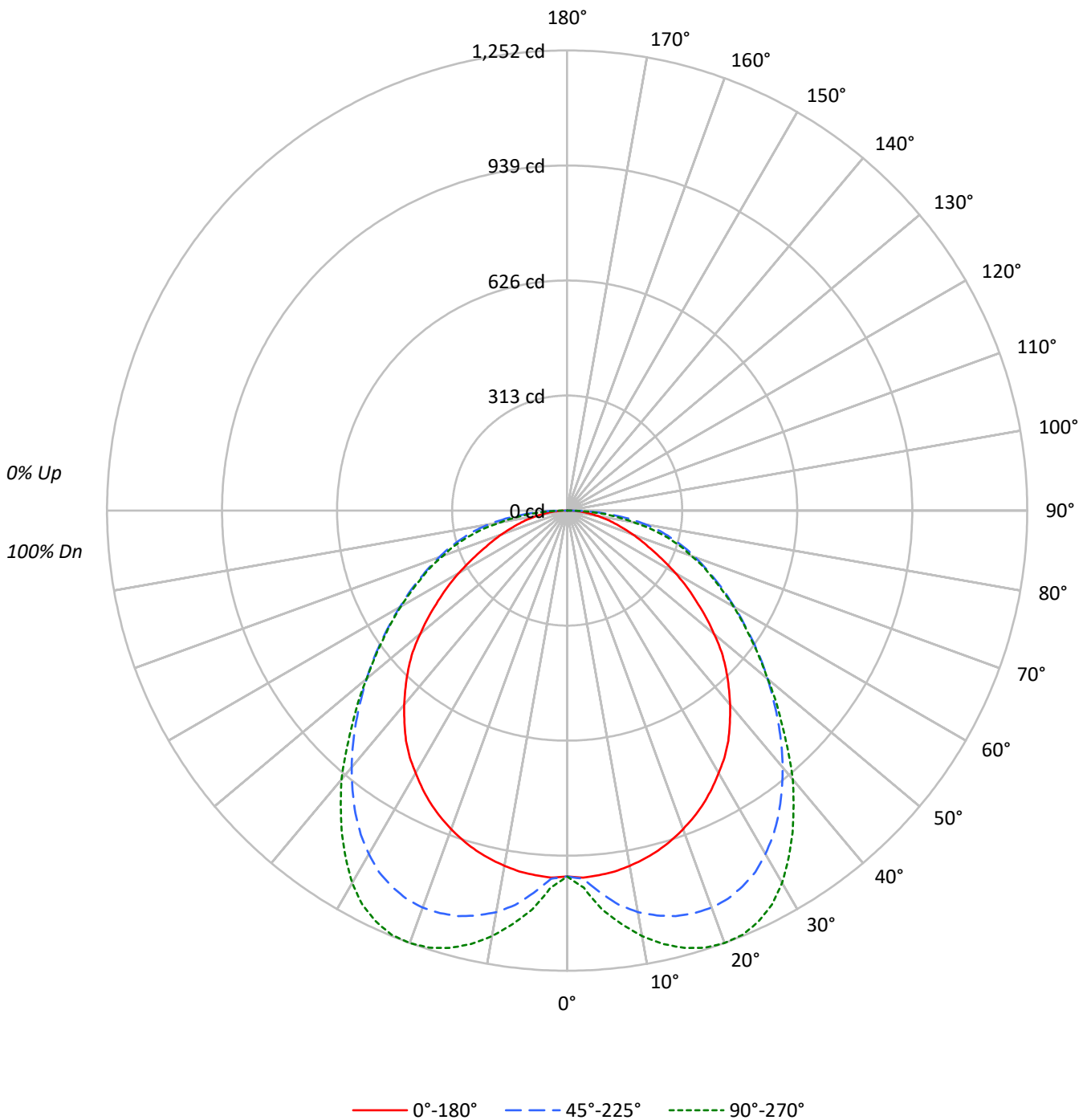
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1340	1340	1340
5°	1345	1410	1471
10°	1341	1515	1606
15°	1334	1591	1716
20°	1320	1646	1793
25°	1305	1675	1830
30°	1281	1677	1817
35°	1255	1650	1756
40°	1212	1602	1678
45°	1163	1544	1575
50°	1092	1490	1490
55°	1005	1444	1434
60°	915	1415	1407
65°	813	1415	1396
70°	748	1456	1412
75°	696	1542	1464
80°	655	1683	1426
85°	636	1817	1490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.0
10°-20°	318.6	9.3
20°-30°	507.4	14.8
30°-40°	605.0	17.6
40°-50°	596.0	17.4
50°-60°	514.8	15.0
60°-70°	401.7	11.7
70°-80°	275.3	8.0
80°-90°	108.0	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°	927.3	27.1
0°-40°	1532.4	44.7
0°-60°	2643.2	77.1
0°-90°	3428.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3428.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	996	1014	1044	1083	1089	95
15°	957	1059	1142	1214	1232	270
25°	879	1018	1128	1214	1233	405
35°	764	894	1005	1062	1069	477
45°	611	723	812	835	828	470
55°	428	543	616	618	611	384
65°	255	382	444	442	438	257
75°	134	260	297	285	282	142
85°	41	125	118	101	96	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.6	995.6	995.6	995.6	995.6
2.5°	999.6	1000.6	1002.6	1022.7	1026.8
5°	995.6	1013.7	1043.9	1083.1	1089.1
7.5°	990.6	1030.8	1082.1	1124.3	1134.4
10°	981.5	1047.9	1109.2	1162.5	1175.6
12.5°	970.5	1056.9	1128.3	1190.7	1207.8
15°	957.4	1059.0	1142.4	1213.8	1231.9
17.5°	941.3	1055.9	1148.5	1226.9	1247.0
20°	922.2	1047.9	1149.5	1231.9	1252.0
22.5°	902.1	1035.8	1143.4	1227.9	1249.0
25°	878.9	1017.7	1128.3	1213.8	1232.9
27.5°	852.8	992.6	1109.2	1189.7	1207.8
30°	824.6	963.4	1079.1	1154.5	1169.6
32.5°	796.5	931.2	1044.9	1112.3	1121.3
35°	764.3	894.0	1004.6	1062.0	1069.0
37.5°	727.1	856.8	959.4	1009.7	1011.7
40°	689.9	811.6	912.1	949.3	955.4
42.5°	650.7	767.3	862.9	894.0	890.0
45°	611.4	723.1	811.6	834.7	827.7
47.5°	570.2	677.8	761.3	776.4	771.3
50°	521.9	632.6	712.0	720.0	712.0
52.5°	475.7	589.3	663.7	667.8	660.7
55°	428.4	543.1	615.5	617.5	611.4
57.5°	385.2	499.8	569.2	569.2	566.2
60°	339.9	456.6	526.0	523.9	522.9
62.5°	296.7	418.4	485.7	482.7	479.7
65°	255.4	382.1	444.5	442.5	438.5
67.5°	221.2	348.0	406.3	403.3	401.3
70°	190.1	317.8	370.1	362.0	359.0
72.5°	159.9	287.6	334.9	322.8	323.8
75°	133.8	259.5	296.7	284.6	281.6
77.5°	107.6	230.3	259.5	240.4	236.3
80°	84.5	199.1	217.2	193.1	184.0
82.5°	62.4	164.9	168.9	145.8	139.8
85°	41.2	124.7	117.7	100.6	96.5
87.5°	22.1	73.4	63.4	51.3	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)