

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: P183812

Luminaire Tested: **24SR-LD2-34-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183812
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-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: 3325.3 lumens
Efficiency: N/A
Efficacy: 122.3 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

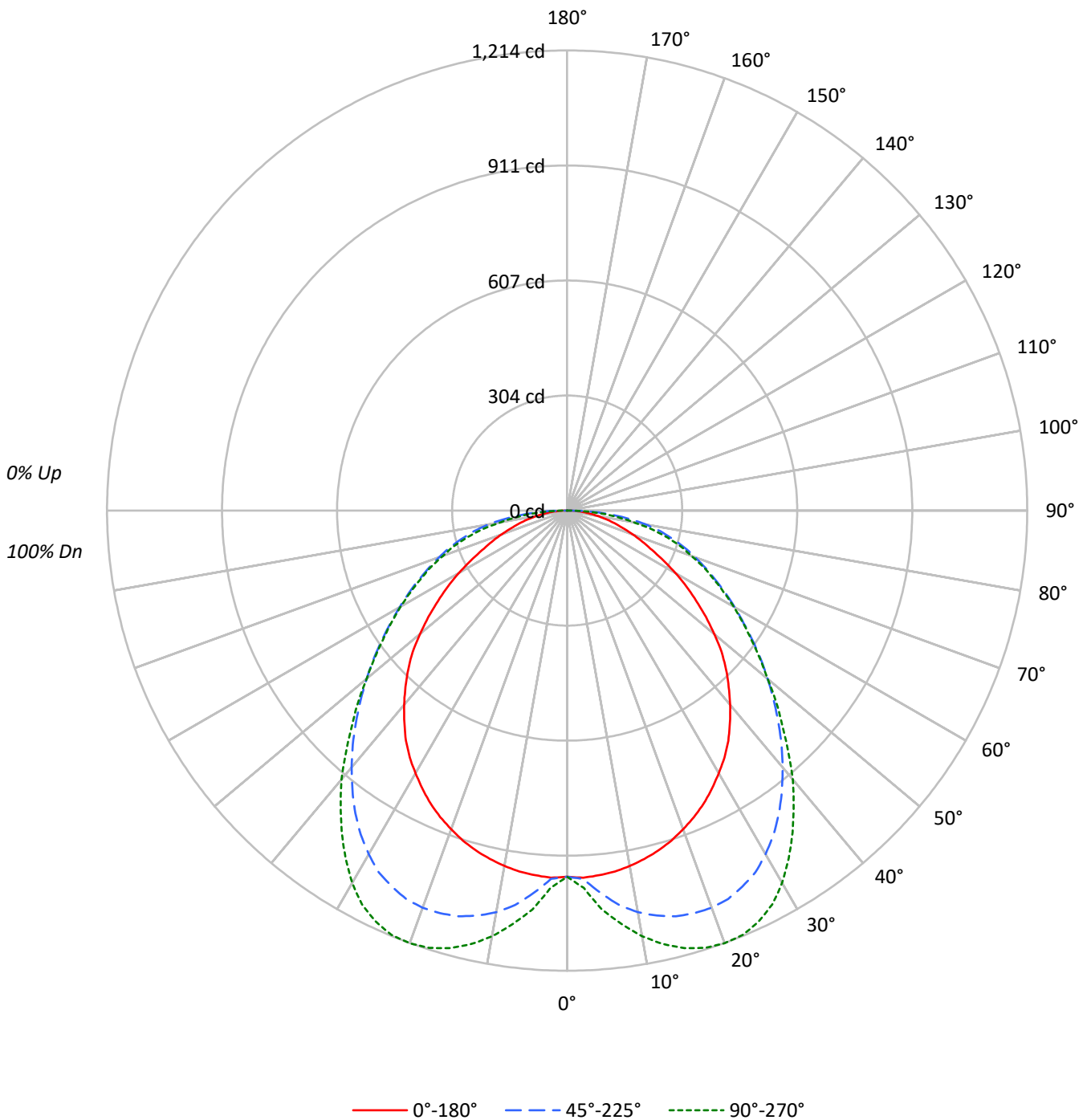
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1299	1299	1299
5°	1304	1368	1427
10°	1301	1470	1558
15°	1294	1544	1665
20°	1281	1597	1739
25°	1266	1625	1775
30°	1243	1626	1763
35°	1218	1601	1703
40°	1175	1554	1628
45°	1129	1498	1528
50°	1060	1446	1446
55°	975	1400	1391
60°	887	1373	1365
65°	789	1373	1354
70°	725	1412	1370
75°	674	1496	1420
80°	635	1633	1383
85°	618	1761	1445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	3.0
10°-20°	309.0	9.3
20°-30°	492.1	14.8
30°-40°	586.9	17.6
40°-50°	578.1	17.4
50°-60°	499.3	15.0
60°-70°	389.7	11.7
70°-80°	267.0	8.0
80°-90°	104.8	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°	899.5	27.1
0°-40°	1486.4	44.7
0°-60°	2563.9	77.1
0°-90°	3325.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3325.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	966	983	1013	1051	1056	92
15°	929	1027	1108	1177	1195	262
25°	853	987	1094	1177	1196	392
35°	741	867	974	1030	1037	462
45°	593	701	787	810	803	456
55°	416	527	597	599	593	373
65°	248	371	431	429	425	249
75°	130	252	288	276	273	138
85°	40	121	114	98	94	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.7	965.7	965.7	965.7	965.7
2.5°	969.6	970.6	972.6	992.1	996.0
5°	965.7	983.3	1012.6	1050.6	1056.4
7.5°	960.9	999.9	1049.6	1090.6	1100.3
10°	952.1	1016.5	1076.0	1127.7	1140.3
12.5°	941.3	1025.2	1094.5	1155.0	1171.6
15°	928.7	1027.2	1108.1	1177.4	1195.0
17.5°	913.1	1024.3	1114.0	1190.1	1209.6
20°	894.5	1016.5	1115.0	1195.0	1214.5
22.5°	875.0	1004.7	1109.1	1191.1	1211.6
25°	852.6	987.2	1094.5	1177.4	1195.9
27.5°	827.2	962.8	1076.0	1154.0	1171.6
30°	799.9	934.5	1046.7	1119.9	1134.5
32.5°	772.6	903.3	1013.5	1078.9	1087.7
35°	741.4	867.2	974.5	1030.1	1036.9
37.5°	705.3	831.1	930.6	979.4	981.3
40°	669.2	787.2	884.8	920.9	926.7
42.5°	631.1	744.3	837.0	867.2	863.3
45°	593.1	701.4	787.2	809.7	802.8
47.5°	553.1	657.5	738.4	753.1	748.2
50°	506.3	613.6	690.6	698.4	690.6
52.5°	461.4	571.6	643.8	647.7	640.9
55°	415.6	526.8	597.0	598.9	593.1
57.5°	373.6	484.8	552.1	552.1	549.2
60°	329.7	442.9	510.2	508.2	507.3
62.5°	287.8	405.8	471.2	468.2	465.3
65°	247.8	370.7	431.2	429.2	425.3
67.5°	214.6	337.5	394.1	391.2	389.2
70°	184.4	308.3	359.0	351.2	348.2
72.5°	155.1	279.0	324.8	313.1	314.1
75°	129.7	251.7	287.8	276.1	273.1
77.5°	104.4	223.4	251.7	233.1	229.2
80°	81.9	193.1	210.7	187.3	178.5
82.5°	60.5	160.0	163.9	141.4	135.6
85°	40.0	121.0	114.1	97.5	93.6
87.5°	21.5	71.2	61.5	49.7	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)