

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: P183810

Luminaire Tested: **24SR-LD2-29-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183810
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-LD2-29-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3216.5 lumens
Efficiency: N/A
Efficacy: 142.3 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

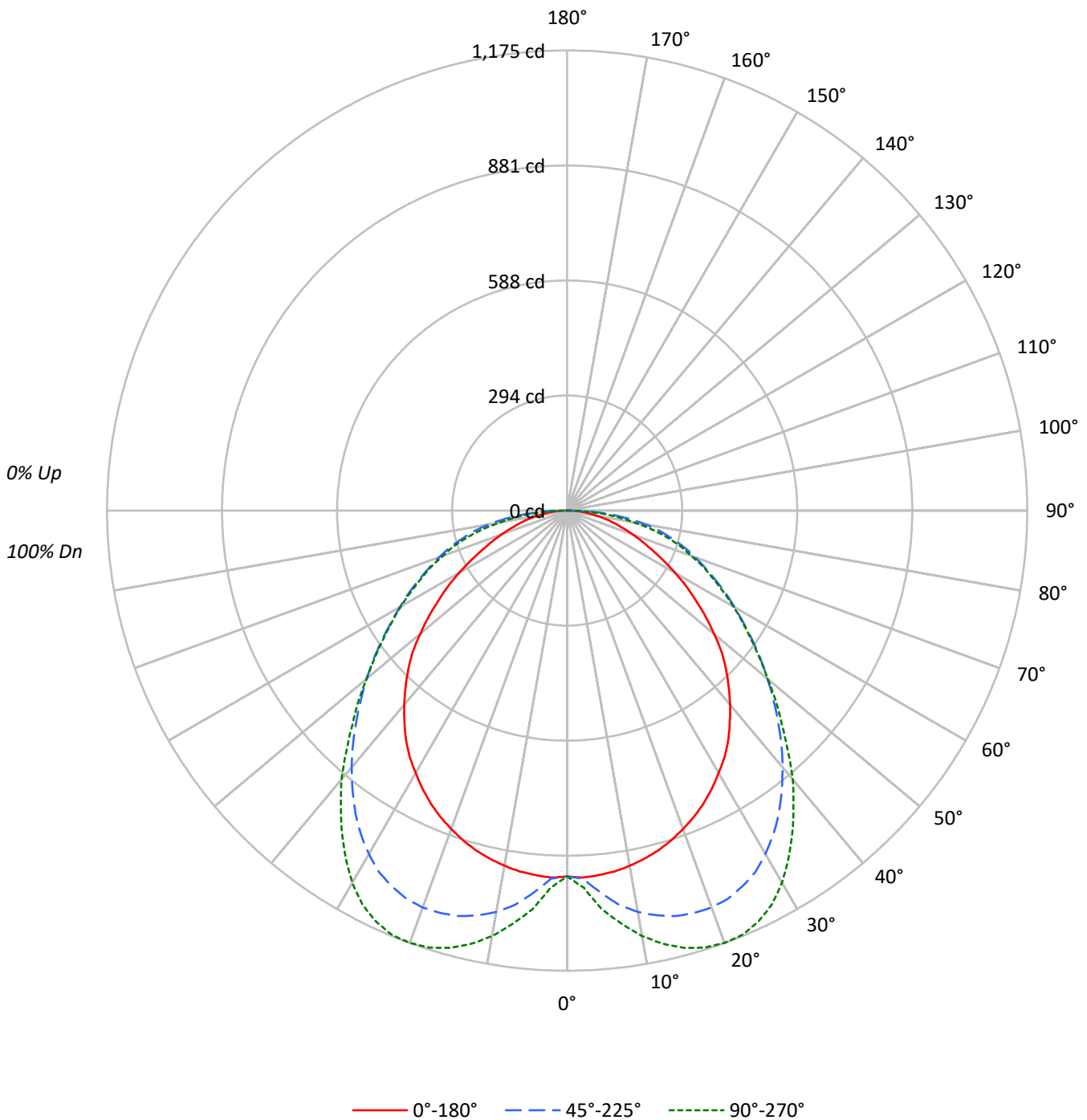
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1257	1257	1257
5°	1262	1323	1380
10°	1258	1422	1507
15°	1251	1493	1610
20°	1239	1544	1682
25°	1224	1572	1717
30°	1202	1573	1705
35°	1178	1548	1647
40°	1137	1503	1574
45°	1092	1449	1478
50°	1025	1398	1398
55°	943	1355	1346
60°	858	1328	1320
65°	763	1328	1310
70°	701	1366	1325
75°	652	1447	1373
80°	614	1579	1338
85°	597	1704	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.0
10°-20°	298.9	9.3
20°-30°	476.0	14.8
30°-40°	567.7	17.6
40°-50°	559.2	17.4
50°-60°	482.9	15.0
60°-70°	376.9	11.7
70°-80°	258.3	8.0
80°-90°	101.4	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°	870.1	27.1
0°-40°	1437.7	44.7
0°-60°	2479.9	77.1
0°-90°	3216.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3216.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	934	951	979	1016	1022	89
15°	898	994	1072	1139	1156	253
25°	825	955	1059	1139	1157	380
35°	717	839	943	996	1003	447
45°	574	678	761	783	776	441
55°	402	510	578	579	574	361
65°	240	358	417	415	411	241
75°	126	243	278	267	264	133
85°	39	117	110	94	91	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.1	934.1	934.1	934.1	934.1
2.5°	937.9	938.8	940.7	959.6	963.4
5°	934.1	951.1	979.4	1016.2	1021.9
7.5°	929.4	967.1	1015.3	1054.9	1064.3
10°	920.9	983.2	1040.7	1090.7	1103.0
12.5°	910.5	991.7	1058.7	1117.2	1133.2
15°	898.3	993.6	1071.9	1138.9	1155.8
17.5°	883.2	990.7	1077.5	1151.1	1170.0
20°	865.2	983.2	1078.5	1155.8	1174.7
22.5°	846.4	971.9	1072.8	1152.1	1171.9
25°	824.7	954.9	1058.7	1138.9	1156.8
27.5°	800.1	931.3	1040.7	1116.2	1133.2
30°	773.7	903.9	1012.4	1083.2	1097.3
32.5°	747.3	873.7	980.3	1043.6	1052.1
35°	717.1	838.8	942.6	996.4	1003.0
37.5°	682.2	803.9	900.1	947.3	949.2
40°	647.3	761.4	855.8	890.7	896.4
42.5°	610.5	719.9	809.6	838.8	835.0
45°	573.7	678.4	761.4	783.1	776.5
47.5°	535.0	636.0	714.3	728.4	723.7
50°	489.7	593.5	668.0	675.6	668.0
52.5°	446.3	552.9	622.7	626.5	619.9
55°	402.0	509.5	577.5	579.3	573.7
57.5°	361.4	468.9	534.0	534.0	531.2
60°	318.9	428.4	493.5	491.6	490.6
62.5°	278.3	392.5	455.7	452.9	450.1
65°	239.7	358.5	417.0	415.2	411.4
67.5°	207.6	326.5	381.2	378.4	376.5
70°	178.3	298.2	347.2	339.7	336.8
72.5°	150.0	269.9	314.2	302.9	303.8
75°	125.5	243.4	278.3	267.0	264.2
77.5°	101.0	216.1	243.4	225.5	221.7
80°	79.3	186.8	203.8	181.2	172.7
82.5°	58.5	154.7	158.5	136.8	131.2
85°	38.7	117.0	110.4	94.4	90.6
87.5°	20.8	68.9	59.4	48.1	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)