

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: P183773

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183773
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-LD2-34-C-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: 3464.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

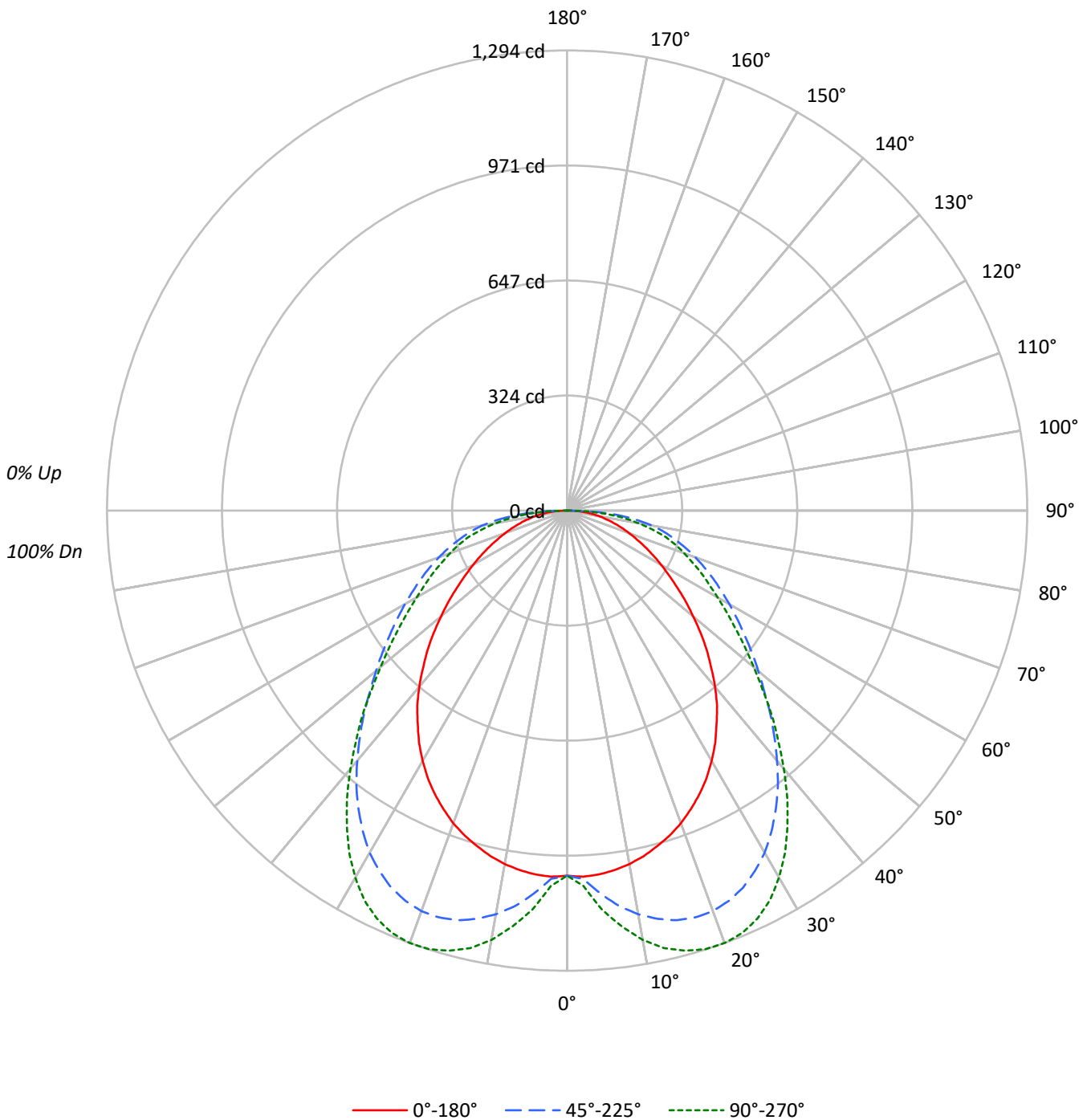
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1382	1382	1382
5°	1387	1460	1521
10°	1379	1574	1675
15°	1361	1661	1785
20°	1340	1716	1853
25°	1307	1737	1879
30°	1263	1726	1851
35°	1203	1681	1774
40°	1137	1613	1664
45°	1056	1537	1549
50°	968	1469	1434
55°	888	1426	1354
60°	821	1417	1315
65°	768	1443	1326
70°	731	1508	1378
75°	708	1636	1495
80°	715	1879	1577
85°	749	2192	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.0
10°-20°	330.5	9.5
20°-30°	521.6	15.1
30°-40°	611.2	17.6
40°-50°	584.7	16.9
50°-60°	498.3	14.4
60°-70°	399.8	11.5
70°-80°	289.4	8.4
80°-90°	123.6	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°	957.0	27.6
0°-40°	1568.2	45.3
0°-60°	2651.2	76.5
0°-90°	3464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1027	1046	1081	1119	1126	97
15°	977	1094	1192	1264	1281	276
25°	880	1049	1170	1249	1266	405
35°	732	912	1023	1078	1080	458
45°	555	717	808	819	814	428
55°	379	540	608	592	577	340
65°	241	406	453	424	416	240
75°	136	288	315	290	288	144
85°	48	144	142	117	111	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.9	1026.9	1026.9	1026.9	1026.9
2.5°	1030.5	1031.6	1036.4	1056.5	1056.5
5°	1026.9	1045.8	1081.3	1119.2	1126.3
7.5°	1019.8	1062.4	1121.6	1170.1	1179.5
10°	1009.2	1080.1	1152.3	1211.5	1225.7
12.5°	995.0	1090.8	1176.0	1243.4	1260.0
15°	977.2	1094.3	1192.5	1263.5	1281.3
17.5°	958.3	1093.2	1199.6	1275.4	1293.1
20°	935.8	1083.7	1198.5	1277.7	1294.3
22.5°	908.6	1070.7	1187.8	1268.3	1286.0
25°	880.2	1049.4	1170.1	1249.3	1265.9
27.5°	848.3	1024.5	1142.8	1219.7	1235.1
30°	812.8	992.6	1110.9	1179.5	1191.4
32.5°	774.9	954.7	1069.5	1132.2	1140.5
35°	732.3	912.1	1023.4	1077.8	1080.1
37.5°	692.1	866.0	973.7	1017.4	1016.3
40°	647.1	816.3	918.1	953.6	947.6
42.5°	599.8	766.6	862.5	887.3	879.0
45°	554.9	716.9	808.0	818.7	814.0
47.5°	508.7	667.3	751.3	759.5	745.3
50°	462.6	622.3	701.6	698.0	685.0
52.5°	420.0	580.9	654.2	643.6	629.4
55°	378.6	539.5	608.1	591.5	577.3
57.5°	339.5	502.8	566.7	544.2	531.2
60°	305.2	467.3	526.5	500.4	488.6
62.5°	272.1	435.4	488.6	461.4	449.6
65°	241.3	405.8	453.1	423.5	416.4
67.5°	211.8	376.2	417.6	389.2	380.9
70°	185.7	345.5	383.3	354.9	350.2
72.5°	159.7	317.1	349.0	323.0	319.4
75°	136.1	287.5	314.7	289.9	287.5
77.5°	112.4	255.5	280.4	250.8	244.9
80°	92.3	223.6	242.5	208.2	203.5
82.5°	69.8	184.6	194.0	163.3	160.9
85°	48.5	144.3	142.0	117.1	111.2
87.5°	26.0	86.4	75.7	60.3	58.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)