

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: P183774

Luminaire Tested: **24SR-LD2-34-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183774
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-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: 3533.3 lumens
Efficiency: N/A
Efficacy: 129.9 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

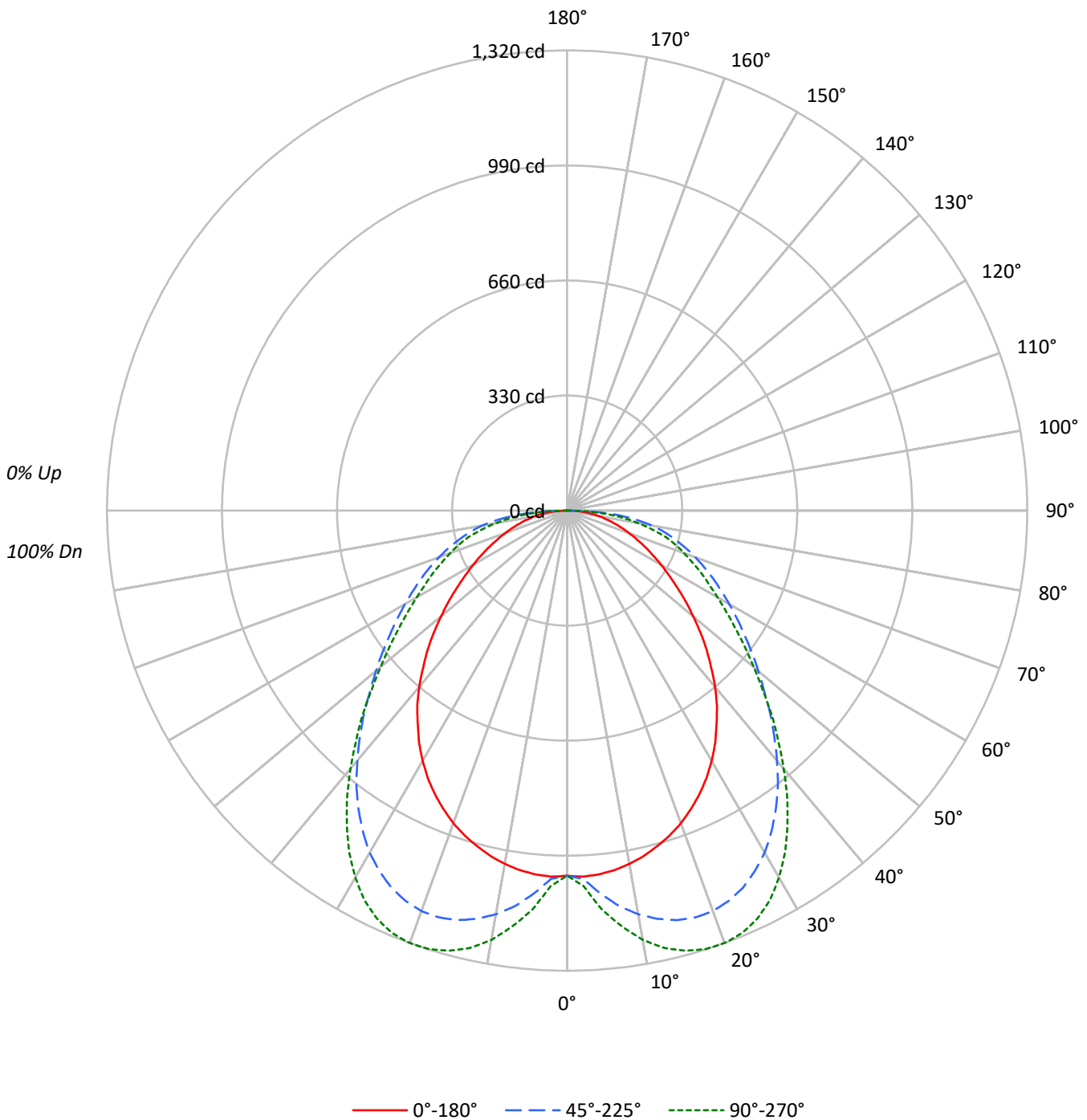
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1409	1409	1409
5°	1415	1490	1552
10°	1406	1606	1708
15°	1388	1694	1820
20°	1367	1750	1890
25°	1333	1772	1917
30°	1288	1760	1888
35°	1227	1714	1810
40°	1159	1645	1698
45°	1077	1568	1580
50°	988	1498	1463
55°	906	1455	1381
60°	838	1445	1341
65°	784	1472	1352
70°	745	1538	1405
75°	722	1669	1524
80°	729	1917	1609
85°	764	2235	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.0
10°-20°	337.1	9.5
20°-30°	532.0	15.1
30°-40°	623.4	17.6
40°-50°	596.4	16.9
50°-60°	508.2	14.4
60°-70°	407.8	11.5
70°-80°	295.2	8.4
80°-90°	126.0	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°	976.1	27.6
0°-40°	1599.6	45.3
0°-60°	2704.2	76.5
0°-90°	3533.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3533.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1047	1067	1103	1142	1149	99
15°	997	1116	1216	1289	1307	281
25°	898	1070	1194	1274	1291	413
35°	747	930	1044	1099	1102	467
45°	566	731	824	835	830	436
55°	386	550	620	603	589	347
65°	246	414	462	432	425	245
75°	139	293	321	296	293	147
85°	50	147	145	120	113	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.4	1047.4	1047.4	1047.4	1047.4
2.5°	1051.1	1052.3	1057.1	1077.6	1077.6
5°	1047.4	1066.8	1103.0	1141.6	1148.8
7.5°	1040.2	1083.6	1144.0	1193.5	1203.1
10°	1029.3	1101.7	1175.4	1235.7	1250.2
12.5°	1014.9	1112.6	1199.5	1268.3	1285.2
15°	996.8	1116.2	1216.4	1288.8	1306.9
17.5°	977.5	1115.0	1223.6	1300.9	1319.0
20°	954.5	1105.4	1222.4	1303.3	1320.2
22.5°	926.8	1092.1	1211.6	1293.6	1311.7
25°	897.8	1070.4	1193.5	1274.3	1291.2
27.5°	865.2	1045.0	1165.7	1244.1	1259.8
30°	829.0	1012.4	1133.1	1203.1	1215.2
32.5°	790.4	973.8	1090.9	1154.8	1163.3
35°	747.0	930.4	1043.8	1099.3	1101.7
37.5°	705.9	883.3	993.1	1037.8	1036.6
40°	660.1	832.6	936.4	972.6	966.6
42.5°	611.8	782.0	879.7	905.1	896.6
45°	566.0	731.3	824.2	835.1	830.2
47.5°	518.9	680.6	766.3	774.7	760.2
50°	471.8	634.7	715.6	712.0	698.7
52.5°	428.4	592.5	667.3	656.5	642.0
55°	386.2	550.3	620.3	603.4	588.9
57.5°	346.3	512.9	578.0	555.1	541.8
60°	311.3	476.7	537.0	510.4	498.4
62.5°	277.5	444.1	498.4	470.6	458.6
65°	246.2	413.9	462.2	432.0	424.8
67.5°	216.0	383.7	426.0	397.0	388.6
70°	189.5	352.4	391.0	362.0	357.2
72.5°	162.9	323.4	356.0	329.4	325.8
75°	138.8	293.2	321.0	295.6	293.2
77.5°	114.6	260.7	286.0	255.8	249.8
80°	94.1	228.1	247.4	212.4	207.6
82.5°	71.2	188.3	197.9	166.5	164.1
85°	49.5	147.2	144.8	119.5	113.4
87.5°	26.5	88.1	77.2	61.5	59.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)