

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: P183933

Luminaire Tested: **14SR-LD2-41-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34451)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-41-C-UNV-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4079.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

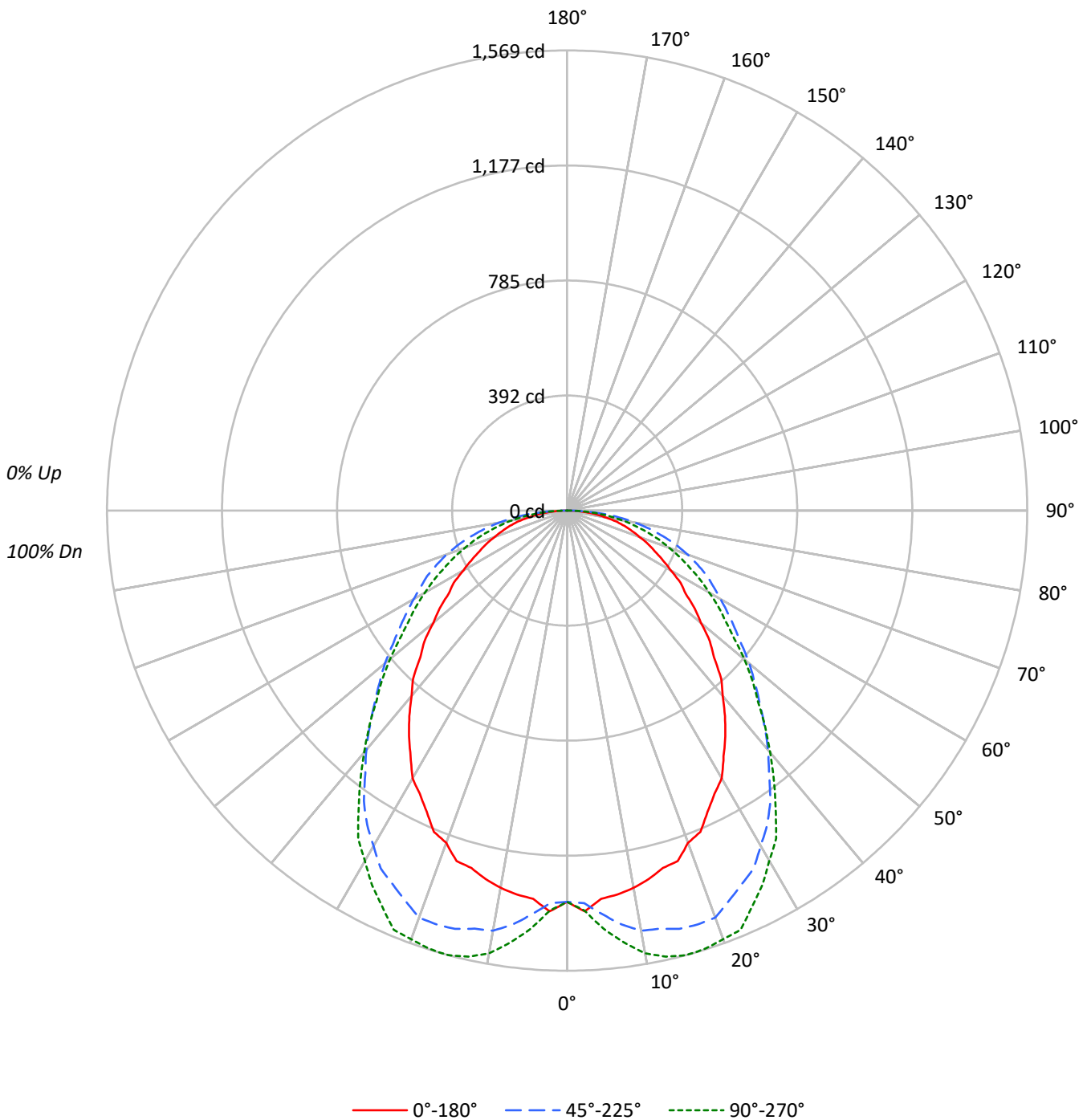
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3590	3590	3590
5°	3589	3732	3868
10°	3569	3974	4188
15°	3514	4114	4371
20°	3452	4229	4453
25°	3363	4177	4426
30°	3276	4102	4285
35°	3087	3969	4070
40°	2898	3743	3783
45°	2693	3534	3502
50°	2494	3396	3302
55°	2310	3267	3097
60°	2198	3251	3011
65°	2101	3348	2939
70°	2068	3433	2905
75°	2094	3518	2908
80°	2038	3640	2947
85°	1985	3714	2936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	3.3
10°-20°	412.9	10.1
20°-30°	635.7	15.6
30°-40°	727.7	17.8
40°-50°	687.9	16.9
50°-60°	584.2	14.3
60°-70°	464.6	11.4
70°-80°	315.0	7.7
80°-90°	116.8	2.9
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°	1183.0	29.0
0°-40°	1910.6	46.8
0°-60°	3182.7	78.0
0°-90°	4079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1328	1356	1382	1429	1432	127
15°	1261	1396	1477	1564	1569	357
25°	1133	1323	1407	1482	1491	523
35°	940	1130	1208	1242	1239	587
45°	708	875	929	940	920	550
55°	492	640	696	680	660	447
65°	330	473	526	481	462	330
75°	201	324	338	291	280	211
85°	64	137	120	98	95	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1334.1	1334.1	1334.1	1334.1	1334.1
2.5°	1367.7	1348.1	1339.7	1367.7	1364.9
5°	1328.5	1356.5	1381.7	1429.2	1432.0
7.5°	1320.1	1384.5	1423.6	1482.4	1485.2
10°	1306.2	1390.1	1454.4	1524.3	1532.7
12.5°	1286.6	1395.7	1460.0	1546.7	1557.9
15°	1261.4	1395.7	1476.8	1563.5	1569.1
17.5°	1253.0	1395.7	1479.6	1555.1	1566.3
20°	1205.5	1381.7	1476.8	1543.9	1555.1
22.5°	1185.9	1356.5	1440.4	1521.5	1546.7
25°	1132.8	1322.9	1406.9	1482.4	1490.8
27.5°	1088.0	1286.6	1376.1	1440.4	1440.4
30°	1054.4	1241.8	1320.1	1381.7	1378.9
32.5°	992.9	1180.3	1269.8	1317.4	1325.7
35°	939.8	1130.0	1208.3	1241.8	1239.0
37.5°	883.8	1065.6	1130.0	1169.1	1157.9
40°	825.1	1001.3	1065.6	1090.8	1076.8
42.5°	777.5	934.2	995.7	1012.5	998.5
45°	707.6	875.4	928.6	939.8	920.2
47.5°	660.1	811.1	867.0	867.0	855.9
50°	595.7	749.6	811.1	794.3	788.7
52.5°	548.2	696.4	749.6	735.6	718.8
55°	492.3	640.5	696.4	679.7	660.1
57.5°	458.7	595.7	648.9	629.3	612.5
60°	408.4	551.0	604.1	579.0	559.4
62.5°	369.2	511.8	562.2	531.4	511.8
65°	330.0	472.7	525.8	481.1	461.5
67.5°	299.3	436.3	481.1	433.5	416.7
70°	262.9	394.4	436.3	386.0	369.2
72.5°	232.1	360.8	388.8	338.4	327.2
75°	201.4	324.4	338.4	290.9	279.7
77.5°	170.6	288.1	288.1	246.1	234.9
80°	131.5	246.1	234.9	198.6	190.2
82.5°	100.7	195.8	179.0	148.2	142.6
85°	64.3	137.0	120.3	97.9	95.1
87.5°	30.8	72.7	58.7	47.5	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)