

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: P183978

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166748)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-41-S-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: 4066.6 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

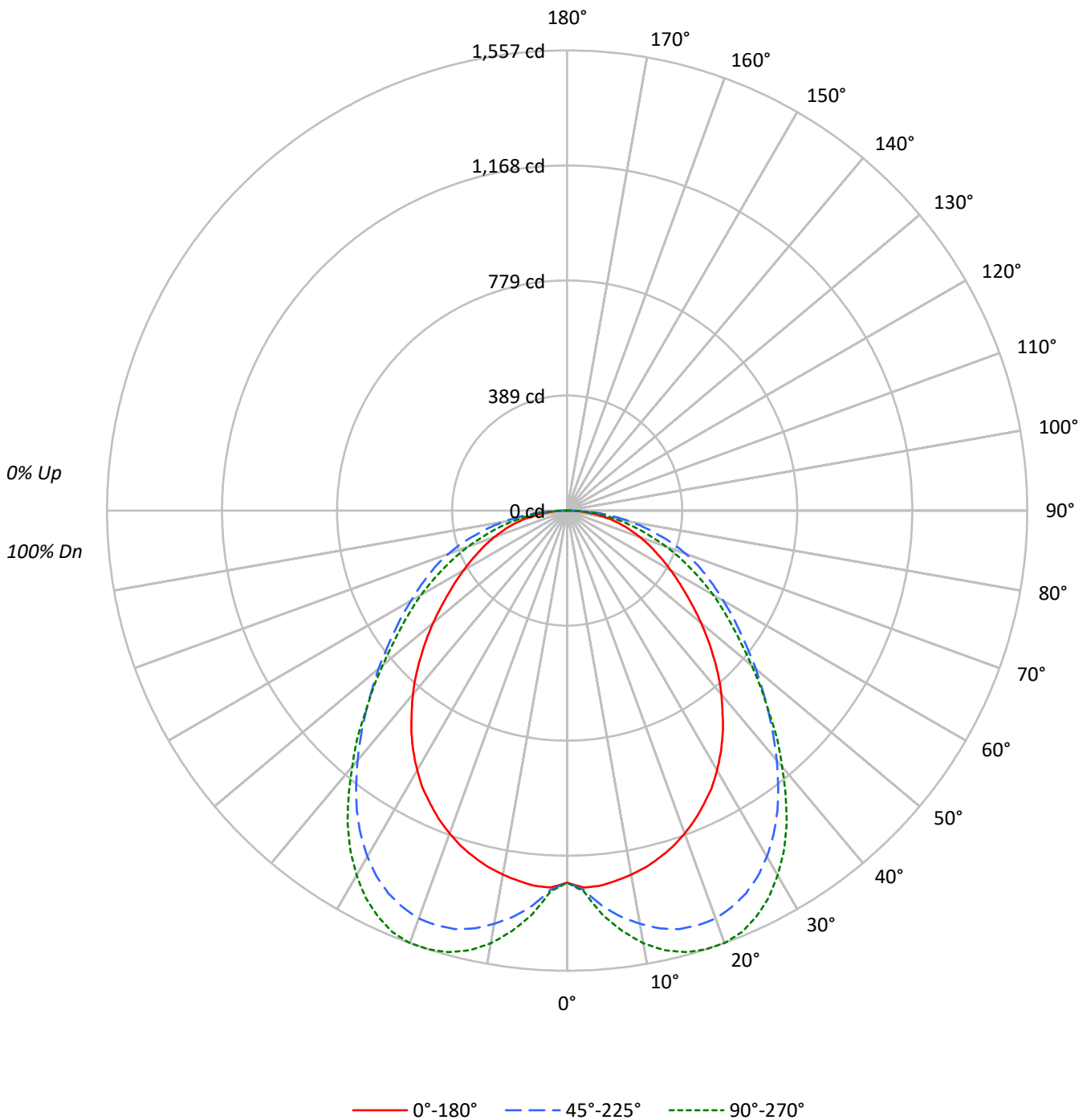
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	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	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	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°	3387	3387	3387
5°	3442	3624	3708
10°	3418	3879	4063
15°	3383	4084	4309
20°	3329	4206	4458
25°	3251	4245	4500
30°	3153	4201	4427
35°	3017	4074	4254
40°	2853	3874	3974
45°	2666	3664	3674
50°	2477	3488	3412
55°	2301	3348	3202
60°	2179	3281	3073
65°	2099	3304	2925
70°	2062	3349	2796
75°	2049	3346	2672
80°	2011	3378	2613
85°	1924	3523	2646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	3.2
10°-20°	403.0	9.9
20°-30°	632.2	15.5
30°-40°	737.2	18.1
40°-50°	701.5	17.2
50°-60°	592.2	14.6
60°-70°	461.4	11.3
70°-80°	300.9	7.4
80°-90°	109.5	2.7
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°	1164.0	28.6
0°-40°	1901.2	46.8
0°-60°	3194.9	78.6
0°-90°	4066.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4066.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1274	1279	1342	1373	1373	121
15°	1214	1334	1466	1531	1547	342
25°	1095	1274	1430	1497	1516	504
35°	918	1100	1240	1284	1295	573
45°	701	859	963	973	965	541
55°	490	644	714	693	682	441
65°	330	472	519	477	459	328
75°	197	317	322	270	257	207
85°	62	135	114	88	86	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.5	1258.5	1258.5	1258.5	1258.5
2.5°	1276.6	1261.2	1284.5	1300.0	1289.6
5°	1274.2	1279.3	1341.7	1372.6	1372.6
7.5°	1263.6	1300.0	1385.6	1427.1	1435.0
10°	1250.8	1318.1	1419.5	1474.0	1487.0
12.5°	1235.1	1331.1	1448.0	1507.6	1523.3
15°	1214.5	1333.8	1466.1	1530.9	1546.6
17.5°	1191.0	1328.7	1471.3	1541.5	1556.9
20°	1162.5	1318.1	1468.8	1538.8	1556.9
22.5°	1131.3	1300.0	1453.1	1523.3	1543.9
25°	1095.0	1274.2	1429.8	1497.3	1515.5
27.5°	1058.7	1237.8	1396.1	1458.3	1476.4
30°	1014.7	1198.8	1352.0	1411.6	1424.6
32.5°	967.9	1152.2	1300.0	1354.5	1365.0
35°	918.5	1100.2	1240.3	1284.5	1294.8
37.5°	864.0	1040.5	1172.8	1211.8	1214.5
40°	812.2	980.9	1102.8	1134.0	1131.3
42.5°	757.7	921.2	1032.9	1053.5	1053.5
45°	700.6	858.9	962.7	973.0	965.4
47.5°	646.1	801.9	895.2	897.9	890.0
50°	591.6	744.7	833.1	825.2	814.9
52.5°	539.8	690.2	770.7	755.0	744.7
55°	490.4	643.6	713.6	692.9	682.4
57.5°	446.3	596.9	661.7	635.7	625.4
60°	404.8	552.8	609.7	581.2	570.9
62.5°	366.0	511.3	563.1	529.4	513.8
65°	329.6	472.3	518.9	477.4	459.3
67.5°	295.8	433.3	474.9	422.9	407.5
70°	262.1	394.4	425.6	371.1	355.4
72.5°	228.3	355.4	378.8	319.1	303.6
75°	197.1	316.6	321.8	269.8	257.0
77.5°	163.5	282.8	272.5	223.1	210.1
80°	129.8	238.8	218.0	176.5	168.6
82.5°	96.0	186.8	166.2	132.3	127.1
85°	62.3	135.0	114.1	88.1	85.7
87.5°	31.2	72.7	57.2	44.2	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)