

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: P183934

Luminaire Tested: **14SR-LD2-41-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183934
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-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4160.6 lumens
Efficiency: N/A
Efficacy: 122.4 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

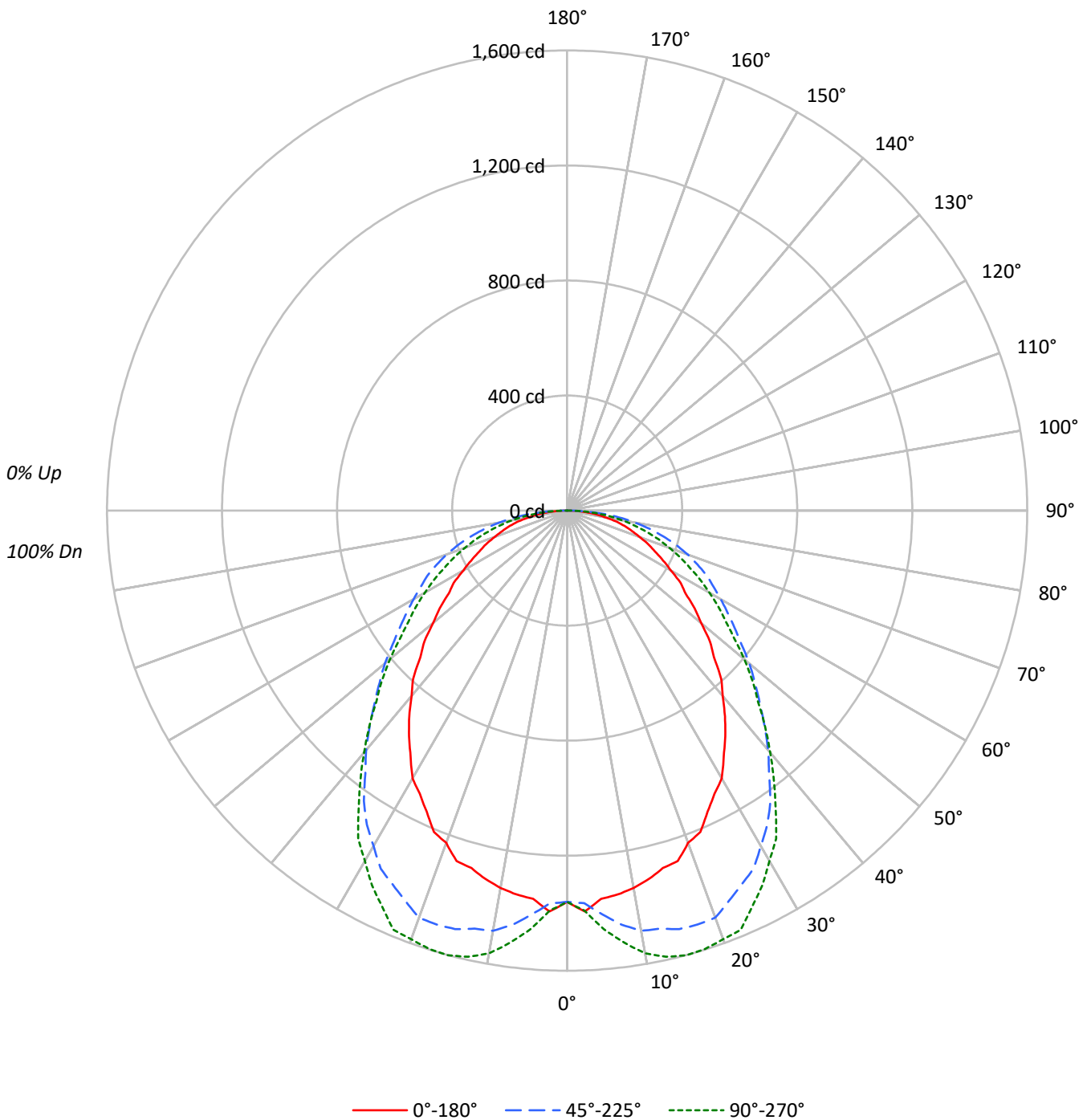
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3662	3662	3662
5°	3660	3807	3946
10°	3640	4054	4272
15°	3584	4196	4459
20°	3521	4314	4542
25°	3431	4261	4515
30°	3342	4184	4370
35°	3149	4049	4152
40°	2956	3818	3858
45°	2747	3605	3572
50°	2544	3463	3368
55°	2356	3333	3159
60°	2242	3316	3071
65°	2143	3415	2997
70°	2110	3501	2963
75°	2136	3589	2966
80°	2078	3713	3006
85°	2025	3788	2995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	3.3
10°-20°	421.1	10.1
20°-30°	648.4	15.6
30°-40°	742.2	17.8
40°-50°	701.6	16.9
50°-60°	595.9	14.3
60°-70°	473.8	11.4
70°-80°	321.3	7.7
80°-90°	119.1	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°	1206.6	29.0
0°-40°	1948.8	46.8
0°-60°	3246.4	78.0
0°-90°	4160.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4160.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1355	1384	1409	1458	1461	129
15°	1287	1424	1506	1595	1600	364
25°	1155	1349	1435	1512	1521	533
35°	959	1153	1232	1267	1264	599
45°	722	893	947	959	939	561
55°	502	653	710	693	673	456
65°	337	482	536	491	471	337
75°	205	331	345	297	285	216
85°	66	140	123	100	97	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.8	1360.8	1360.8	1360.8	1360.8
2.5°	1395.1	1375.1	1366.5	1395.1	1392.2
5°	1355.1	1383.6	1409.3	1457.8	1460.7
7.5°	1346.6	1412.2	1452.1	1512.0	1514.9
10°	1332.3	1417.9	1483.5	1554.8	1563.4
12.5°	1312.3	1423.6	1489.2	1577.6	1589.0
15°	1286.6	1423.6	1506.3	1594.8	1600.5
17.5°	1278.1	1423.6	1509.2	1586.2	1597.6
20°	1229.6	1409.3	1506.3	1574.8	1586.2
22.5°	1209.6	1383.6	1469.2	1552.0	1577.6
25°	1155.4	1349.4	1435.0	1512.0	1520.6
27.5°	1109.8	1312.3	1403.6	1469.2	1469.2
30°	1075.5	1266.7	1346.6	1409.3	1406.5
32.5°	1012.8	1203.9	1295.2	1343.7	1352.3
35°	958.6	1152.6	1232.4	1266.7	1263.8
37.5°	901.5	1086.9	1152.6	1192.5	1181.1
40°	841.6	1021.3	1086.9	1112.6	1098.4
42.5°	793.1	952.9	1015.6	1032.7	1018.5
45°	721.8	892.9	947.2	958.6	938.6
47.5°	673.3	827.3	884.4	884.4	873.0
50°	607.7	764.6	827.3	810.2	804.5
52.5°	559.2	710.4	764.6	750.3	733.2
55°	502.1	653.3	710.4	693.2	673.3
57.5°	467.9	607.7	661.9	641.9	624.8
60°	416.5	562.0	616.2	590.5	570.6
62.5°	376.6	522.1	573.4	542.0	522.1
65°	336.6	482.1	536.3	490.7	470.7
67.5°	305.3	445.0	490.7	442.2	425.1
70°	268.2	402.3	445.0	393.7	376.6
72.5°	236.8	368.0	396.5	345.2	333.8
75°	205.4	330.9	345.2	296.7	285.3
77.5°	174.0	293.8	293.8	251.1	239.6
80°	134.1	251.1	239.6	202.6	194.0
82.5°	102.7	199.7	182.6	151.2	145.5
85°	65.6	139.8	122.7	99.9	97.0
87.5°	31.4	74.2	59.9	48.5	45.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)