

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: P183973

Luminaire Tested: **14SR-LD2-35-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183973
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-LD2-35-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: 3462.5 lumens
Efficiency: N/A
Efficacy: 121.9 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

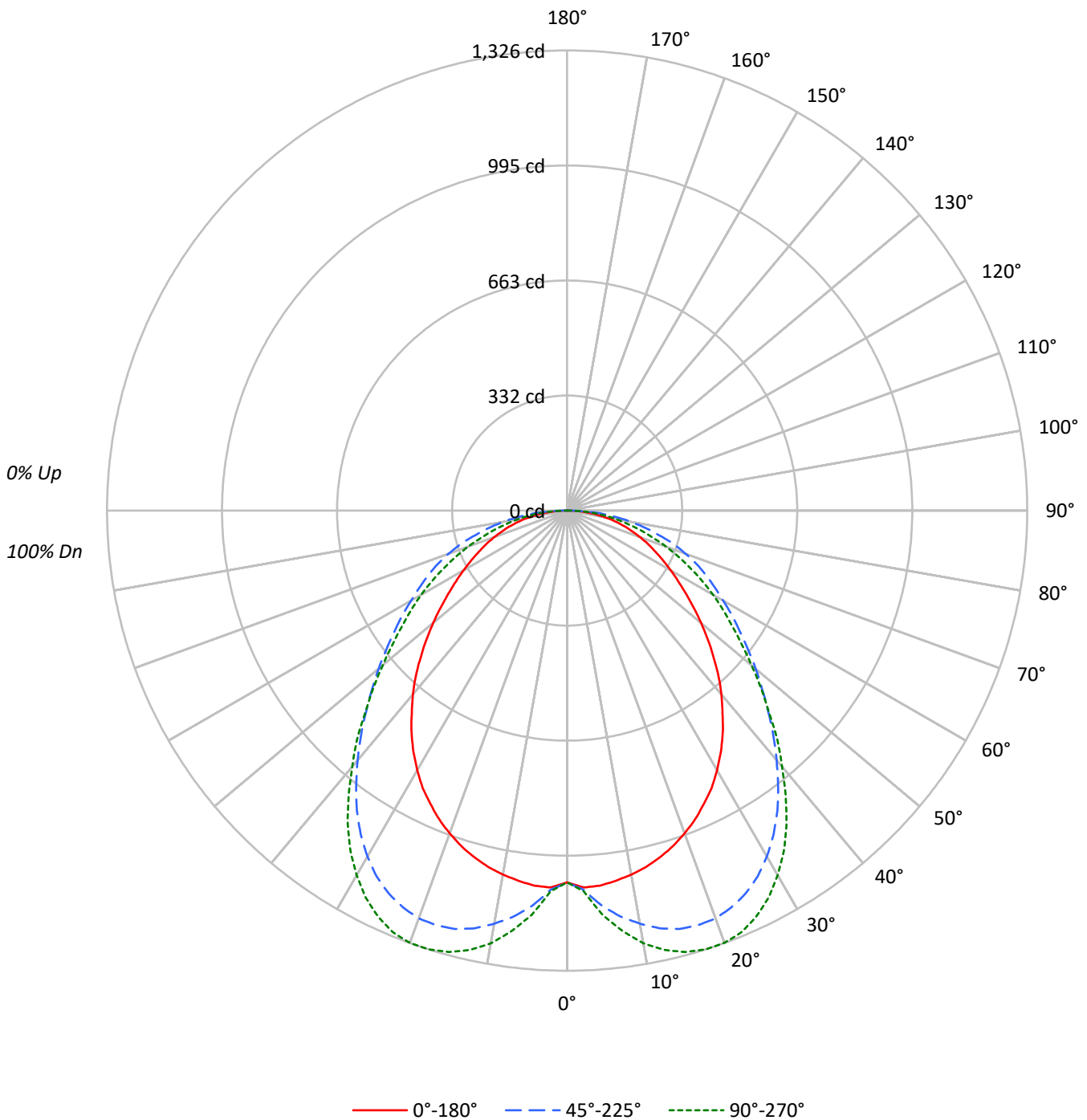
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2883	2883	2883
5°	2931	3086	3157
10°	2910	3302	3460
15°	2881	3478	3668
20°	2834	3581	3796
25°	2768	3615	3831
30°	2685	3577	3769
35°	2569	3469	3621
40°	2429	3299	3384
45°	2270	3119	3128
50°	2109	2969	2905
55°	1959	2850	2726
60°	1855	2794	2616
65°	1787	2813	2490
70°	1756	2851	2381
75°	1745	2849	2275
80°	1712	2876	2225
85°	1639	3001	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.2
10°-20°	343.1	9.9
20°-30°	538.3	15.5
30°-40°	627.7	18.1
40°-50°	597.3	17.2
50°-60°	504.2	14.6
60°-70°	392.8	11.3
70°-80°	256.2	7.4
80°-90°	93.2	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°	991.1	28.6
0°-40°	1618.8	46.8
0°-60°	2720.2	78.6
0°-90°	3462.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3462.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1085	1089	1142	1169	1169	103
15°	1034	1136	1248	1304	1317	291
25°	932	1085	1217	1275	1290	429
35°	782	937	1056	1094	1102	488
45°	596	731	820	828	822	461
55°	418	548	608	590	581	376
65°	281	402	442	406	391	279
75°	168	270	274	230	219	176
85°	53	115	97	75	73	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.5	1071.5	1071.5	1071.5	1071.5
2.5°	1087.0	1073.8	1093.7	1106.8	1098.0
5°	1084.9	1089.3	1142.3	1168.7	1168.7
7.5°	1075.9	1106.8	1179.8	1215.1	1221.8
10°	1065.0	1122.3	1208.6	1255.0	1266.1
12.5°	1051.6	1133.4	1232.8	1283.6	1297.0
15°	1034.1	1135.7	1248.3	1303.5	1316.8
17.5°	1014.0	1131.3	1252.7	1312.5	1325.6
20°	989.8	1122.3	1250.6	1310.2	1325.6
22.5°	963.2	1106.8	1237.2	1297.0	1314.6
25°	932.3	1084.9	1217.4	1274.8	1290.3
27.5°	901.4	1053.9	1188.7	1241.6	1257.1
30°	864.0	1020.7	1151.1	1201.9	1213.0
32.5°	824.1	981.0	1106.8	1153.2	1162.2
35°	782.1	936.7	1056.0	1093.7	1102.4
37.5°	735.7	885.9	998.6	1031.8	1034.1
40°	691.6	835.1	939.0	965.5	963.2
42.5°	645.2	784.3	879.4	897.0	897.0
45°	596.5	731.3	819.7	828.5	822.0
47.5°	550.1	682.8	762.2	764.5	757.8
50°	503.7	634.1	709.3	702.6	693.8
52.5°	459.6	587.7	656.2	642.9	634.1
55°	417.6	548.0	607.5	590.0	581.0
57.5°	380.0	508.2	563.4	541.3	532.5
60°	344.6	470.6	519.1	494.9	486.1
62.5°	311.6	435.3	479.4	450.8	437.4
65°	280.7	402.1	441.8	406.5	391.0
67.5°	251.8	368.9	404.4	360.1	346.9
70°	223.2	335.8	362.4	316.0	302.6
72.5°	194.4	302.6	322.5	271.7	258.5
75°	167.8	269.6	274.0	229.7	218.8
77.5°	139.2	240.8	232.0	190.0	178.9
80°	110.5	203.3	185.6	150.3	143.6
82.5°	81.7	159.0	141.5	112.7	108.3
85°	53.1	114.9	97.2	75.0	72.9
87.5°	26.5	61.9	48.7	37.6	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)