

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: P183928

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183928
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-LD2-35-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: 3473.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

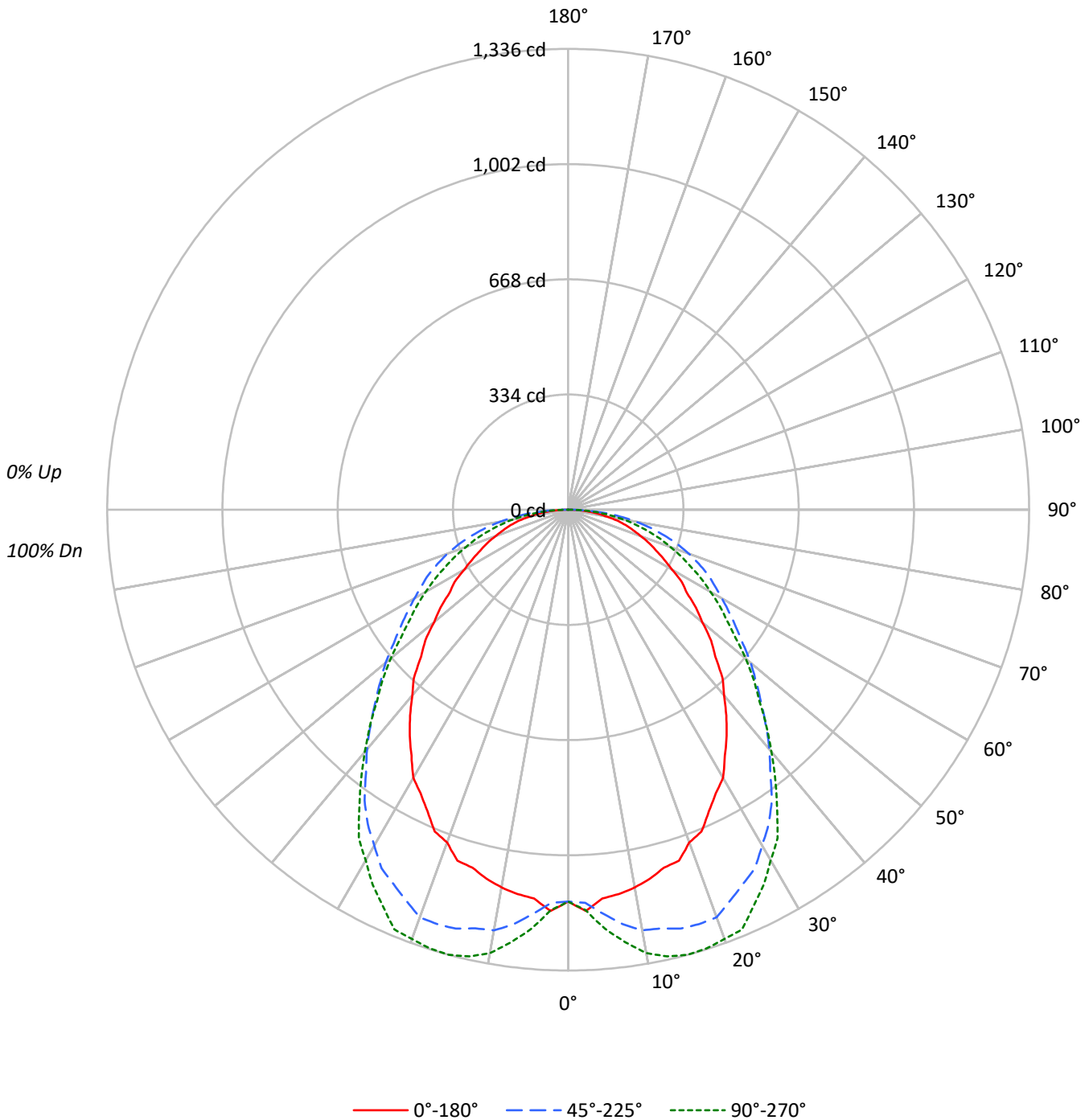
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3057	3057	3057
5°	3056	3178	3294
10°	3039	3384	3566
15°	2992	3503	3722
20°	2939	3601	3792
25°	2864	3556	3769
30°	2790	3493	3648
35°	2629	3380	3466
40°	2468	3187	3221
45°	2293	3009	2982
50°	2123	2891	2812
55°	1966	2782	2637
60°	1871	2768	2563
65°	1789	2851	2502
70°	1762	2923	2473
75°	1783	2995	2476
80°	1734	3099	2509
85°	1692	3162	2501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	3.3
10°-20°	351.5	10.1
20°-30°	541.2	15.6
30°-40°	619.6	17.8
40°-50°	585.7	16.9
50°-60°	497.4	14.3
60°-70°	395.5	11.4
70°-80°	268.2	7.7
80°-90°	99.4	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°	1007.2	29.0
0°-40°	1626.8	46.8
0°-60°	2709.8	78.0
0°-90°	3473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1131	1155	1176	1217	1219	108
15°	1074	1188	1257	1331	1336	304
25°	964	1126	1198	1262	1269	445
35°	800	962	1029	1057	1055	500
45°	602	745	791	800	784	469
55°	419	545	593	579	562	381
65°	281	402	448	410	393	281
75°	172	276	288	248	238	180
85°	55	117	102	83	81	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.9	1135.9	1135.9	1135.9	1135.9
2.5°	1164.5	1147.8	1140.7	1164.5	1162.1
5°	1131.2	1155.0	1176.4	1216.9	1219.3
7.5°	1124.0	1178.8	1212.1	1262.1	1264.5
10°	1112.1	1183.6	1238.3	1297.9	1305.0
12.5°	1095.4	1188.3	1243.1	1316.9	1326.4
15°	1074.0	1188.3	1257.4	1331.2	1336.0
17.5°	1066.9	1188.3	1259.8	1324.1	1333.6
20°	1026.4	1176.4	1257.4	1314.5	1324.1
22.5°	1009.7	1155.0	1226.4	1295.5	1316.9
25°	964.5	1126.4	1197.8	1262.1	1269.3
27.5°	926.4	1095.4	1171.6	1226.4	1226.4
30°	897.8	1057.3	1124.0	1176.4	1174.0
32.5°	845.4	1005.0	1081.2	1121.6	1128.8
35°	800.2	962.1	1028.8	1057.3	1055.0
37.5°	752.5	907.3	962.1	995.4	985.9
40°	702.5	852.5	907.3	928.7	916.8
42.5°	662.0	795.4	847.8	862.1	850.2
45°	602.5	745.4	790.6	800.2	783.5
47.5°	562.0	690.6	738.2	738.2	728.7
50°	507.2	638.2	690.6	676.3	671.6
52.5°	466.8	593.0	638.2	626.3	612.0
55°	419.1	545.3	593.0	578.7	562.0
57.5°	390.5	507.2	552.5	535.8	521.5
60°	347.7	469.1	514.4	492.9	476.3
62.5°	314.3	435.8	478.7	452.5	435.8
65°	281.0	402.5	447.7	409.6	392.9
67.5°	254.8	371.5	409.6	369.1	354.8
70°	223.9	335.8	371.5	328.6	314.3
72.5°	197.7	307.2	331.0	288.1	278.6
75°	171.5	276.2	288.1	247.7	238.1
77.5°	145.3	245.3	245.3	209.6	200.0
80°	111.9	209.6	200.0	169.1	161.9
82.5°	85.7	166.7	152.4	126.2	121.5
85°	54.8	116.7	102.4	83.3	81.0
87.5°	26.2	61.9	50.0	40.5	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)