

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: P183925

Luminaire Tested: **14SR-LD2-32-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183925
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-LD2-32-C-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3615.3 lumens
Efficiency: N/A
Efficacy: 137.5 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

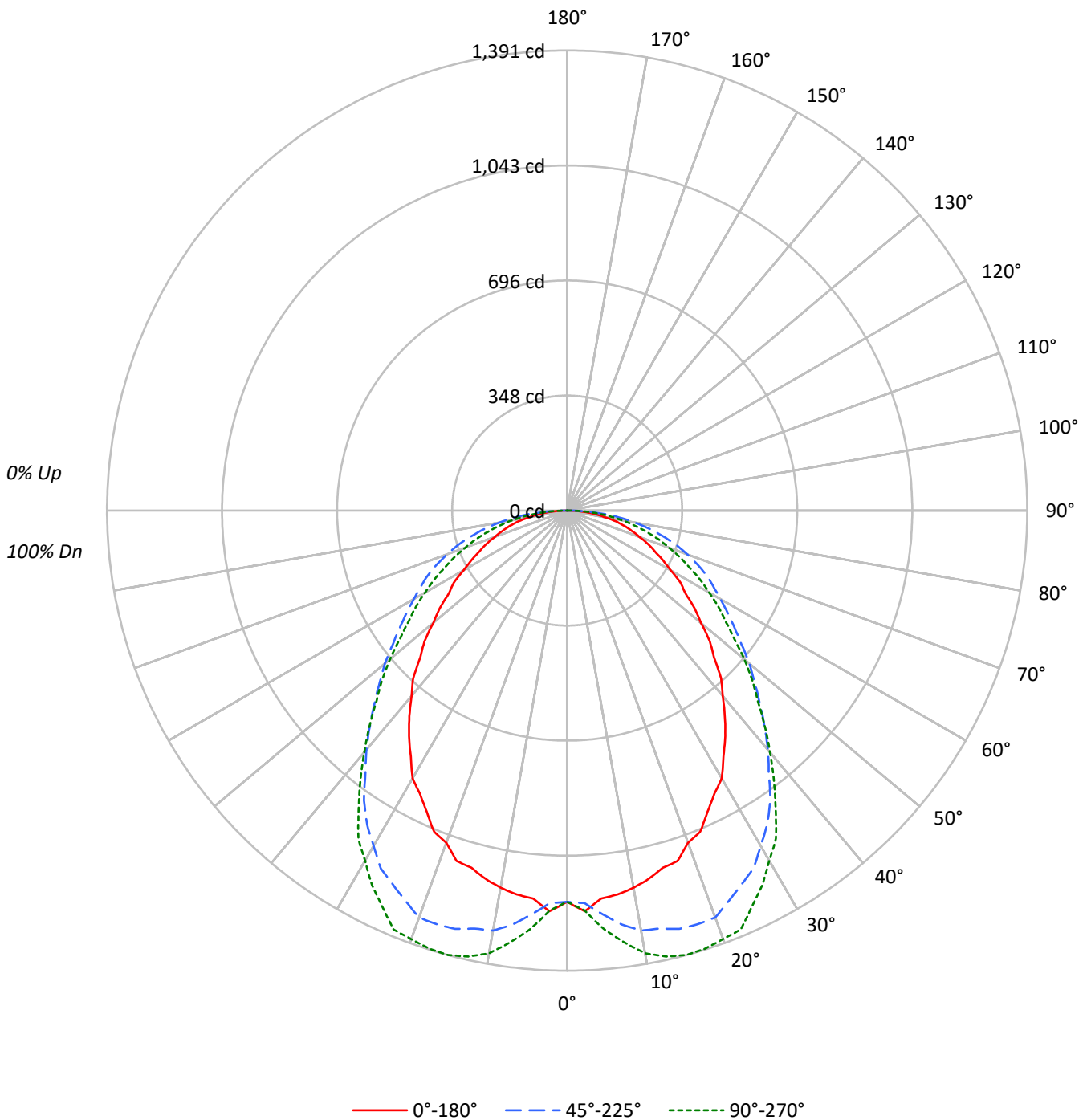
Input Watts (W): 26.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3182	3182	3182
5°	3181	3308	3428
10°	3163	3522	3712
15°	3115	3646	3874
20°	3060	3748	3947
25°	2981	3702	3923
30°	2904	3636	3797
35°	2736	3518	3608
40°	2569	3318	3353
45°	2387	3132	3104
50°	2210	3010	2927
55°	2047	2896	2745
60°	1948	2882	2668
65°	1862	2967	2604
70°	1833	3043	2574
75°	1856	3119	2577
80°	1805	3226	2613
85°	1760	3291	2603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	3.3
10°-20°	365.9	10.1
20°-30°	563.4	15.6
30°-40°	644.9	17.8
40°-50°	609.7	16.9
50°-60°	517.8	14.3
60°-70°	411.7	11.4
70°-80°	279.2	7.7
80°-90°	103.5	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°	1048.5	29.0
0°-40°	1693.4	46.8
0°-60°	2820.9	78.0
0°-90°	3615.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3615.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1178	1202	1225	1267	1269	112
15°	1118	1237	1309	1386	1391	317
25°	1004	1172	1247	1314	1321	463
35°	833	1002	1071	1101	1098	520
45°	627	776	823	833	816	488
55°	436	568	617	602	585	396
65°	292	419	466	426	409	293
75°	178	288	300	258	248	187
85°	57	122	107	87	84	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.5	1182.5	1182.5	1182.5	1182.5
2.5°	1212.2	1194.9	1187.4	1212.2	1209.7
5°	1177.5	1202.3	1224.6	1266.7	1269.2
7.5°	1170.1	1227.1	1261.8	1313.8	1316.3
10°	1157.7	1232.0	1289.1	1351.0	1358.5
12.5°	1140.3	1237.0	1294.0	1370.9	1380.8
15°	1118.0	1237.0	1308.9	1385.7	1390.7
17.5°	1110.6	1237.0	1311.4	1378.3	1388.2
20°	1068.4	1224.6	1308.9	1368.4	1378.3
22.5°	1051.1	1202.3	1276.7	1348.5	1370.9
25°	1004.0	1172.5	1246.9	1313.8	1321.3
27.5°	964.3	1140.3	1219.6	1276.7	1276.7
30°	934.6	1100.7	1170.1	1224.6	1222.1
32.5°	880.0	1046.1	1125.4	1167.6	1175.0
35°	832.9	1001.5	1070.9	1100.7	1098.2
37.5°	783.3	944.5	1001.5	1036.2	1026.3
40°	731.3	887.5	944.5	966.8	954.4
42.5°	689.1	828.0	882.5	897.4	885.0
45°	627.2	775.9	823.0	832.9	815.6
47.5°	585.0	718.9	768.5	768.5	758.6
50°	528.0	664.4	718.9	704.0	699.1
52.5°	485.9	617.3	664.4	652.0	637.1
55°	436.3	567.7	617.3	602.4	585.0
57.5°	406.5	528.0	575.1	557.8	542.9
60°	361.9	488.4	535.5	513.1	495.8
62.5°	327.2	453.6	498.3	471.0	453.6
65°	292.5	418.9	466.0	426.4	409.0
67.5°	265.2	386.7	426.4	384.2	369.4
70°	233.0	349.5	386.7	342.1	327.2
72.5°	205.8	319.8	344.6	300.0	290.0
75°	178.5	287.6	300.0	257.8	247.9
77.5°	151.2	255.3	255.3	218.1	208.2
80°	116.5	218.1	208.2	176.0	168.6
82.5°	89.2	173.5	158.7	131.4	126.4
85°	57.0	121.5	106.6	86.8	84.3
87.5°	27.3	64.5	52.1	42.1	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)