

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: P183965

Luminaire Tested: **14SR-LD2-30-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183965
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-LD2-30-S-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: 3369.7 lumens
Efficiency: N/A
Efficacy: 137.5 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

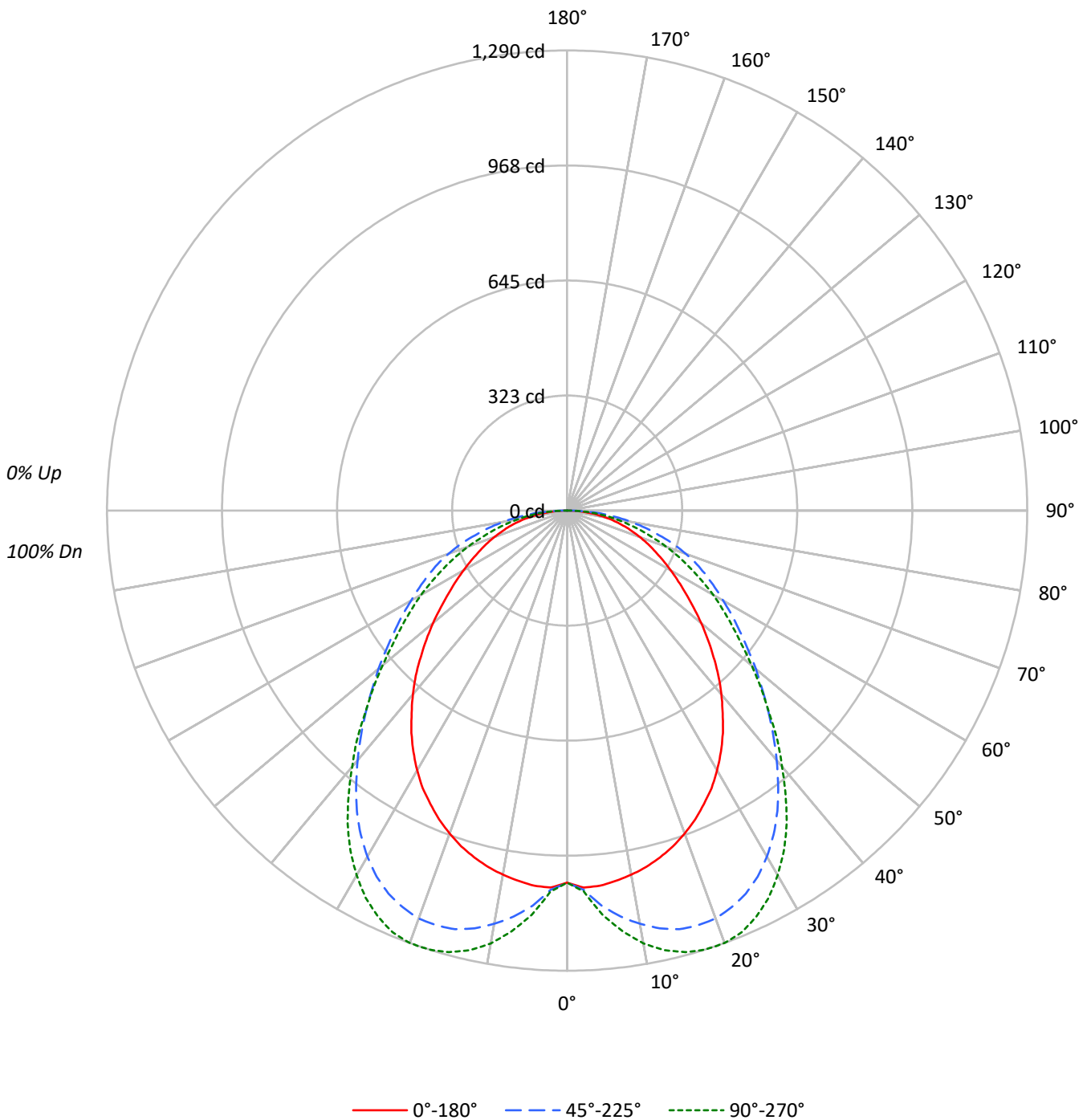
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2806	2806	2806
5°	2852	3003	3072
10°	2832	3214	3367
15°	2804	3385	3570
20°	2759	3485	3694
25°	2694	3518	3728
30°	2613	3481	3668
35°	2500	3376	3525
40°	2364	3210	3293
45°	2209	3036	3044
50°	2052	2890	2827
55°	1907	2774	2653
60°	1805	2719	2546
65°	1739	2738	2423
70°	1709	2775	2317
75°	1698	2772	2214
80°	1667	2799	2165
85°	1596	2921	2192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.2
10°-20°	333.9	9.9
20°-30°	523.9	15.5
30°-40°	610.9	18.1
40°-50°	581.3	17.2
50°-60°	490.7	14.6
60°-70°	382.3	11.3
70°-80°	249.3	7.4
80°-90°	90.7	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°	964.5	28.6
0°-40°	1575.4	46.8
0°-60°	2647.3	78.6
0°-90°	3369.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1056	1060	1112	1137	1137	100
15°	1006	1105	1215	1269	1282	284
25°	907	1056	1185	1241	1256	418
35°	761	912	1028	1064	1073	475
45°	580	712	798	806	800	448
55°	406	533	591	574	565	366
65°	273	391	430	396	381	272
75°	163	262	267	224	213	172
85°	52	112	95	73	71	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.8	1042.8	1042.8	1042.8	1042.8
2.5°	1057.9	1045.0	1064.3	1077.2	1068.6
5°	1055.8	1060.1	1111.7	1137.4	1137.4
7.5°	1047.1	1077.2	1148.2	1182.5	1189.0
10°	1036.5	1092.2	1176.2	1221.4	1232.1
12.5°	1023.5	1103.0	1199.8	1249.2	1262.2
15°	1006.4	1105.2	1214.9	1268.6	1281.6
17.5°	986.9	1101.0	1219.1	1277.3	1290.1
20°	963.3	1092.2	1217.1	1275.1	1290.1
22.5°	937.4	1077.2	1204.1	1262.2	1279.3
25°	907.3	1055.8	1184.8	1240.7	1255.7
27.5°	877.2	1025.7	1156.9	1208.4	1223.4
30°	840.8	993.4	1120.3	1169.7	1180.5
32.5°	802.0	954.7	1077.2	1122.3	1131.1
35°	761.1	911.6	1027.7	1064.3	1072.9
37.5°	716.0	862.2	971.8	1004.1	1006.4
40°	673.0	812.8	913.8	939.7	937.4
42.5°	627.9	763.3	855.9	873.0	873.0
45°	580.5	711.7	797.7	806.3	799.9
47.5°	535.3	664.5	741.8	744.0	737.5
50°	490.2	617.1	690.3	683.8	675.2
52.5°	447.3	571.9	638.6	625.6	617.1
55°	406.4	533.3	591.3	574.2	565.4
57.5°	369.8	494.6	548.3	526.8	518.2
60°	335.4	458.0	505.2	481.6	473.1
62.5°	303.2	423.7	466.6	438.7	425.7
65°	273.1	391.3	430.0	395.6	380.6
67.5°	245.1	359.0	393.6	350.5	337.6
70°	217.2	326.8	352.7	307.5	294.5
72.5°	189.2	294.5	313.8	264.4	251.6
75°	163.3	262.4	266.6	223.5	212.9
77.5°	135.5	234.3	225.8	184.9	174.1
80°	107.6	197.9	180.6	146.2	139.7
82.5°	79.5	154.8	137.7	109.6	105.4
85°	51.7	111.9	94.6	73.0	71.0
87.5°	25.8	60.2	47.4	36.6	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)