

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: P183960

Luminaire Tested: **14SR-LD2-25-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183960
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-LD2-25-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

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

Summary

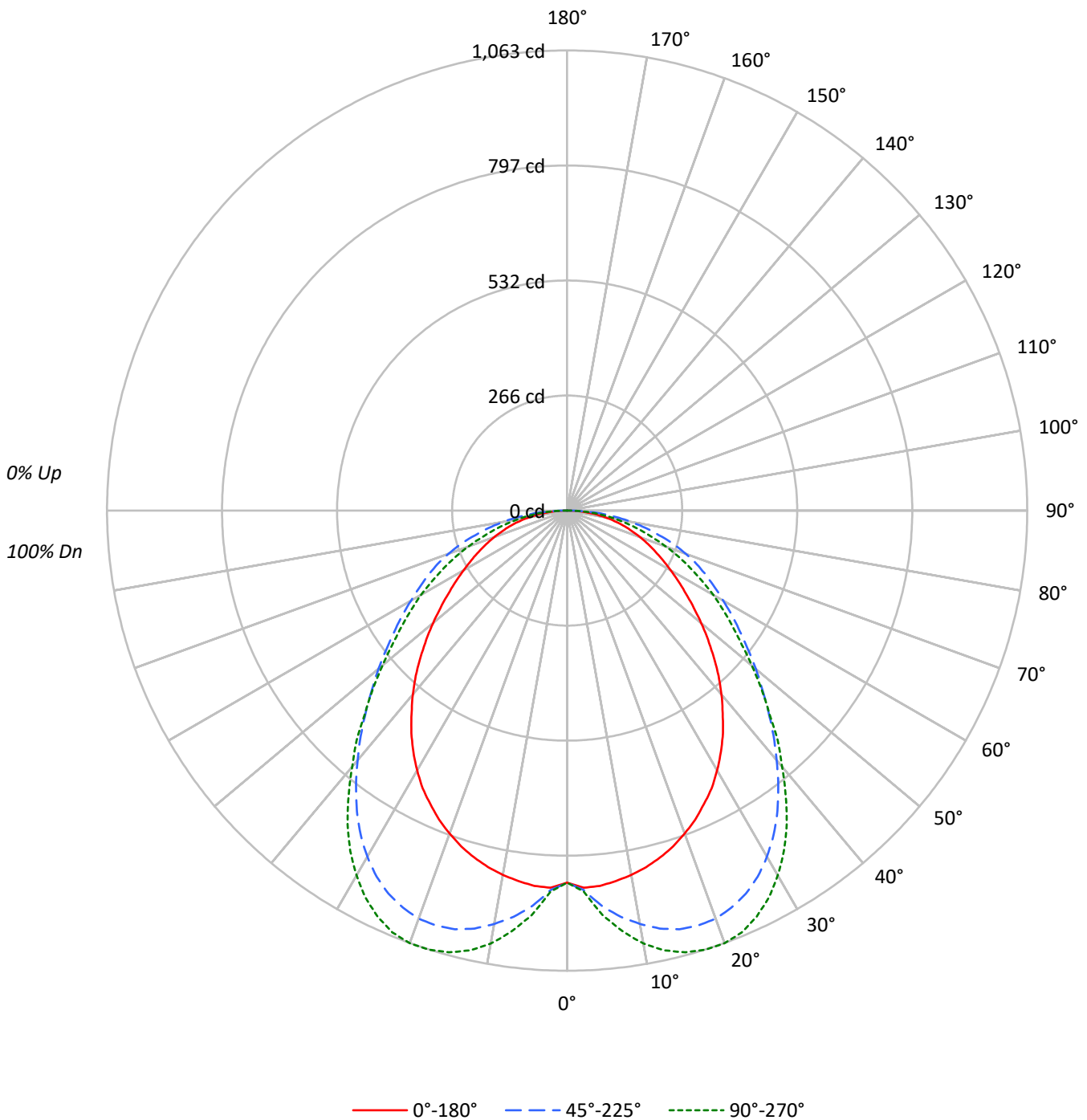
Lumens per Lamp: N/A
Luminaire Lumens: 2777.7 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.9
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°	2313	2313	2313
5°	2351	2475	2532
10°	2335	2649	2775
15°	2311	2790	2943
20°	2274	2873	3045
25°	2221	2900	3073
30°	2154	2869	3024
35°	2061	2783	2905
40°	1949	2646	2714
45°	1821	2503	2509
50°	1692	2382	2330
55°	1572	2287	2187
60°	1488	2242	2099
65°	1434	2257	1997
70°	1409	2287	1910
75°	1399	2285	1825
80°	1375	2307	1785
85°	1315	2408	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	3.2
10°-20°	275.3	9.9
20°-30°	431.8	15.5
30°-40°	503.5	18.1
40°-50°	479.1	17.2
50°-60°	404.5	14.6
60°-70°	315.1	11.3
70°-80°	205.5	7.4
80°-90°	74.8	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°	795.1	28.6
0°-40°	1298.6	46.8
0°-60°	2182.2	78.6
0°-90°	2777.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2777.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	870	874	916	938	938	82
15°	830	911	1001	1046	1056	234
25°	748	870	977	1023	1035	344
35°	627	751	847	877	884	391
45°	478	587	658	665	659	370
55°	335	440	487	473	466	301
65°	225	323	354	326	314	224
75°	135	216	220	184	176	141
85°	43	92	78	60	58	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.6	859.6	859.6	859.6	859.6
2.5°	872.0	861.4	877.3	887.9	880.9
5°	870.3	873.8	916.4	937.5	937.5
7.5°	863.1	887.9	946.4	974.8	980.1
10°	854.4	900.3	969.5	1006.8	1015.7
12.5°	843.7	909.2	989.0	1029.7	1040.5
15°	829.6	911.0	1001.4	1045.7	1056.4
17.5°	813.5	907.5	1004.9	1052.9	1063.4
20°	794.0	900.3	1003.2	1051.0	1063.4
22.5°	772.7	887.9	992.5	1040.5	1054.6
25°	747.9	870.3	976.6	1022.7	1035.1
27.5°	723.1	845.5	953.6	996.1	1008.5
30°	693.1	818.8	923.4	964.2	973.1
32.5°	661.1	787.0	887.9	925.1	932.3
35°	627.4	751.4	847.2	877.3	884.4
37.5°	590.2	710.7	801.1	827.7	829.6
40°	554.8	670.0	753.3	774.6	772.7
42.5°	517.6	629.2	705.5	719.6	719.6
45°	478.5	586.6	657.6	664.6	659.4
47.5°	441.3	547.7	611.4	613.3	607.9
50°	404.1	508.7	569.0	563.7	556.6
52.5°	368.7	471.5	526.4	515.7	508.7
55°	335.0	439.6	487.4	473.3	466.1
57.5°	304.8	407.7	452.0	434.2	427.2
60°	276.5	377.6	416.5	397.0	390.0
62.5°	250.0	349.2	384.6	361.6	350.9
65°	225.2	322.6	354.4	326.1	313.7
67.5°	202.0	295.9	324.4	288.9	278.3
70°	179.1	269.4	290.7	253.5	242.8
72.5°	155.9	242.8	258.7	218.0	207.4
75°	134.6	216.3	219.8	184.3	175.5
77.5°	111.7	193.1	186.1	152.4	143.5
80°	88.7	163.1	148.9	120.5	115.2
82.5°	65.6	127.6	113.5	90.4	86.8
85°	42.6	92.2	78.0	60.2	58.5
87.5°	21.3	49.6	39.1	30.2	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)