

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: P183955

Luminaire Tested: **14SR-LD2-23-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183955
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-LD2-23-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: 2535.3 lumens
Efficiency: N/A
Efficacy: 139.3 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

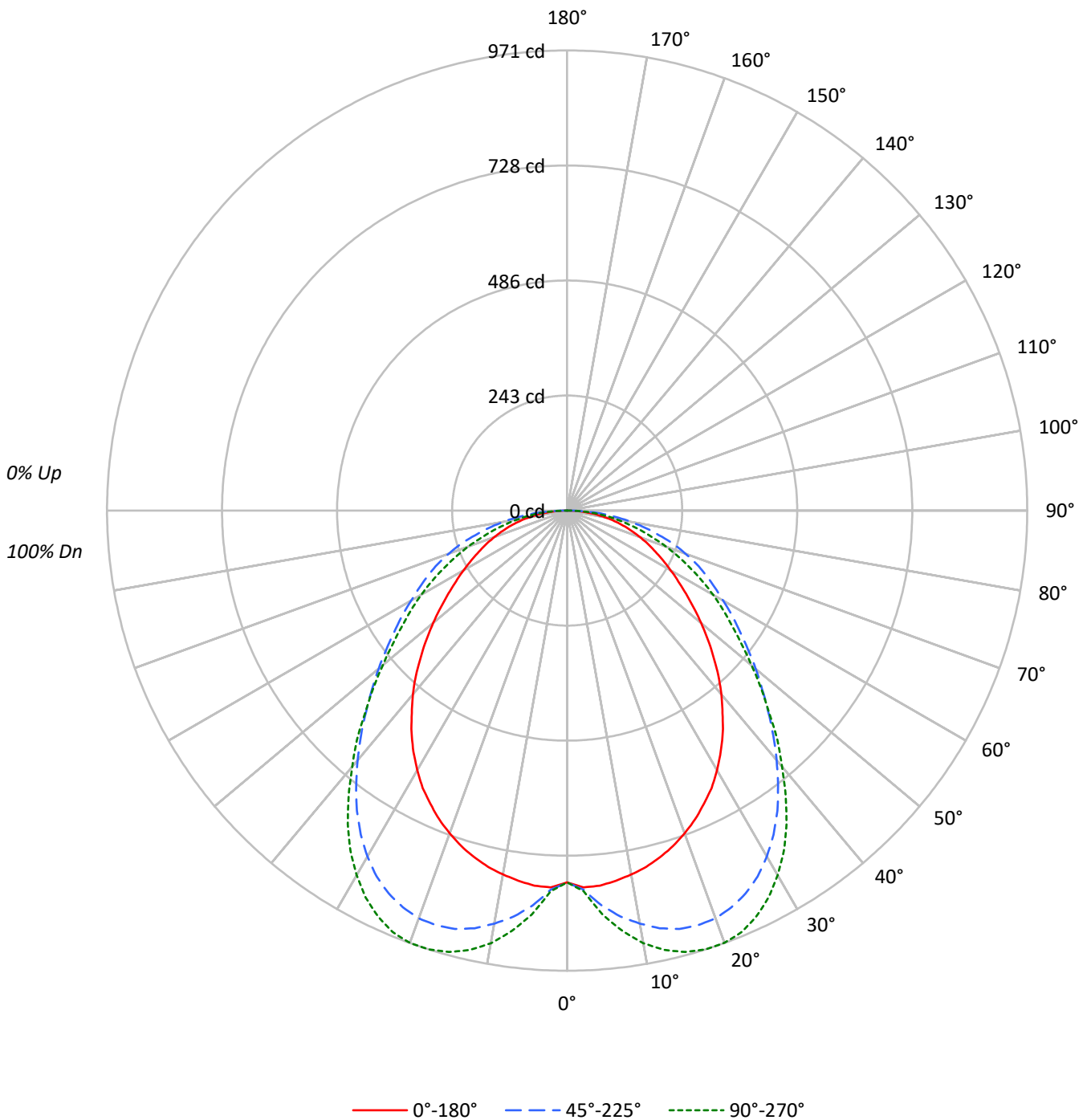
Input Watts (W): 18.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69					69			
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59					59			
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50					50			
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2111	2111	2111
5°	2146	2259	2311
10°	2131	2418	2533
15°	2109	2546	2686
20°	2075	2622	2780
25°	2027	2647	2805
30°	1966	2619	2760
35°	1881	2540	2652
40°	1779	2415	2478
45°	1662	2284	2291
50°	1544	2174	2127
55°	1435	2087	1996
60°	1358	2046	1915
65°	1309	2060	1823
70°	1286	2087	1744
75°	1278	2086	1666
80°	1254	2106	1629
85°	1201	2198	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.2
10°-20°	251.2	9.9
20°-30°	394.2	15.5
30°-40°	459.6	18.1
40°-50°	437.3	17.2
50°-60°	369.2	14.6
60°-70°	287.6	11.3
70°-80°	187.6	7.4
80°-90°	68.3	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°	725.7	28.6
0°-40°	1185.3	46.8
0°-60°	1991.8	78.6
0°-90°	2535.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2535.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	794	798	836	856	856	75
15°	757	832	914	954	964	213
25°	683	794	891	934	945	314
35°	573	686	773	801	807	357
45°	437	536	600	607	602	337
55°	306	401	445	432	425	275
65°	206	294	324	298	286	204
75°	123	197	201	168	160	129
85°	39	84	71	55	53	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.6	784.6	784.6	784.6	784.6
2.5°	795.9	786.3	800.8	810.4	804.0
5°	794.4	797.6	836.4	855.7	855.7
7.5°	787.8	810.4	863.9	889.7	894.6
10°	779.8	821.8	885.0	918.9	927.0
12.5°	770.0	829.9	902.7	939.9	949.7
15°	757.2	831.6	914.0	954.4	964.2
17.5°	742.5	828.3	917.3	961.0	970.7
20°	724.7	821.8	915.7	959.3	970.7
22.5°	705.3	810.4	905.9	949.7	962.6
25°	682.7	794.4	891.4	933.5	944.8
27.5°	660.0	771.7	870.4	909.1	920.5
30°	632.6	747.4	842.9	880.1	888.2
32.5°	603.4	718.3	810.4	844.4	851.0
35°	572.6	685.9	773.3	800.8	807.2
37.5°	538.7	648.7	731.2	755.5	757.2
40°	506.4	611.5	687.6	707.0	705.3
42.5°	472.4	574.3	643.9	656.8	656.8
45°	436.8	535.5	600.2	606.6	601.9
47.5°	402.8	499.9	558.1	559.8	554.9
50°	368.8	464.3	519.4	514.5	508.0
52.5°	336.5	430.3	480.5	470.7	464.3
55°	305.8	401.2	444.9	432.0	425.4
57.5°	278.2	372.2	412.6	396.3	389.9
60°	252.3	344.6	380.1	362.4	355.9
62.5°	228.2	318.7	351.0	330.1	320.3
65°	205.5	294.4	323.5	297.6	286.3
67.5°	184.4	270.1	296.1	263.7	254.0
70°	163.4	245.9	265.3	231.4	221.6
72.5°	142.3	221.6	236.1	198.9	189.3
75°	122.9	197.4	200.6	168.2	160.2
77.5°	101.9	176.3	169.9	139.1	131.0
80°	80.9	148.9	135.9	110.0	105.1
82.5°	59.8	116.5	103.6	82.5	79.3
85°	38.9	84.2	71.2	54.9	53.4
87.5°	19.4	45.3	35.6	27.5	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)