

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: P183912

Luminaire Tested: **14SR-LD2-25-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183912
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-LD2-25-C-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

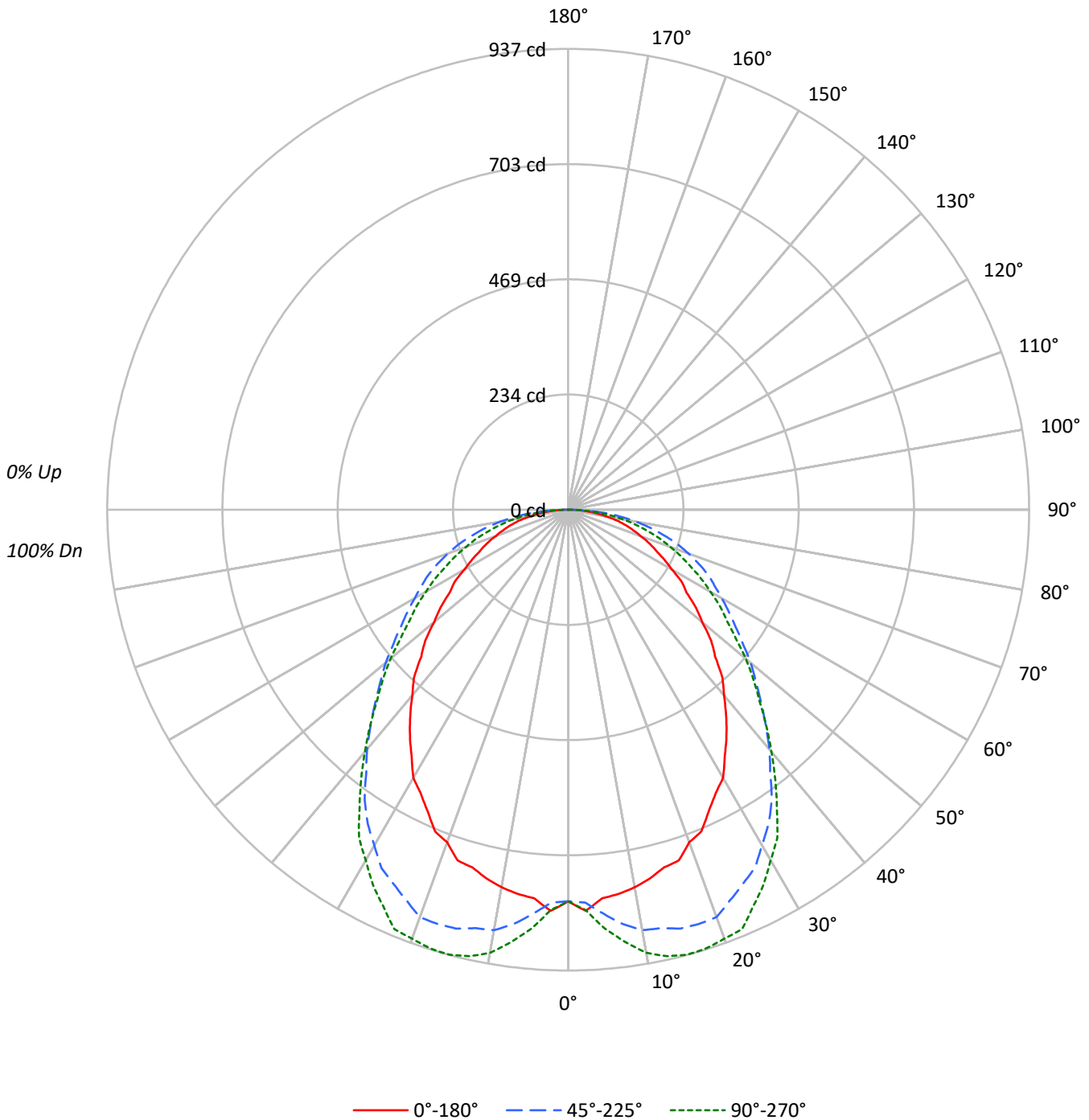
Lumens per Lamp: N/A
Luminaire Lumens: 2434.7 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.9
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°	2143	2143	2143
5°	2142	2228	2309
10°	2130	2372	2500
15°	2098	2456	2609
20°	2060	2524	2658
25°	2007	2493	2642
30°	1956	2449	2557
35°	1843	2369	2430
40°	1730	2235	2258
45°	1607	2109	2090
50°	1489	2027	1971
55°	1378	1950	1848
60°	1312	1941	1797
65°	1254	1999	1754
70°	1234	2049	1734
75°	1250	2100	1735
80°	1216	2173	1759
85°	1186	2217	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.3
10°-20°	246.4	10.1
20°-30°	379.4	15.6
30°-40°	434.3	17.8
40°-50°	410.6	16.9
50°-60°	348.7	14.3
60°-70°	277.3	11.4
70°-80°	188.0	7.7
80°-90°	69.7	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°	706.1	29.0
0°-40°	1140.4	46.8
0°-60°	1899.7	78.0
0°-90°	2434.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2434.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	793	810	825	853	855	76
15°	753	833	882	933	937	213
25°	676	790	840	885	890	312
35°	561	674	721	741	740	350
45°	422	522	554	561	549	329
55°	294	382	416	406	394	267
65°	197	282	314	287	276	197
75°	120	194	202	174	167	126
85°	38	82	72	58	57	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.3	796.3	796.3	796.3	796.3
2.5°	816.4	804.7	799.7	816.4	814.7
5°	793.0	809.7	824.7	853.1	854.8
7.5°	788.0	826.4	849.7	884.8	886.5
10°	779.6	829.7	868.1	909.8	914.9
12.5°	767.9	833.1	871.5	923.2	929.9
15°	752.9	833.1	881.5	933.2	936.6
17.5°	747.9	833.1	883.1	928.2	934.9
20°	719.5	824.7	881.5	921.5	928.2
22.5°	707.8	809.7	859.8	908.2	923.2
25°	676.1	789.6	839.7	884.8	889.8
27.5°	649.4	767.9	821.4	859.8	859.8
30°	629.4	741.2	788.0	824.7	823.0
32.5°	592.7	704.5	757.9	786.3	791.3
35°	560.9	674.5	721.2	741.2	739.6
37.5°	527.5	636.1	674.5	697.8	691.2
40°	492.5	597.7	636.1	651.1	642.7
42.5°	464.1	557.6	594.3	604.3	596.0
45°	422.4	522.5	554.3	560.9	549.2
47.5°	394.0	484.1	517.5	517.5	510.9
50°	355.6	447.4	484.1	474.1	470.8
52.5°	327.2	415.7	447.4	439.1	429.0
55°	293.8	382.3	415.7	405.7	394.0
57.5°	273.8	355.6	387.3	375.6	365.6
60°	243.7	328.9	360.6	345.6	333.9
62.5°	220.4	305.5	335.6	317.2	305.5
65°	197.0	282.1	313.9	287.1	275.5
67.5°	178.6	260.4	287.1	258.8	248.7
70°	156.9	235.4	260.4	230.4	220.4
72.5°	138.6	215.4	232.1	202.0	195.3
75°	120.2	193.7	202.0	173.6	166.9
77.5°	101.8	172.0	172.0	146.9	140.2
80°	78.5	146.9	140.2	118.5	113.5
82.5°	60.1	116.9	106.8	88.5	85.1
85°	38.4	81.8	71.8	58.4	56.8
87.5°	18.4	43.4	35.1	28.4	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)