

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: P183924

Luminaire Tested: **14SR-LD2-32-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183924
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-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3322.1 lumens
Efficiency: N/A
Efficacy: 126.3 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

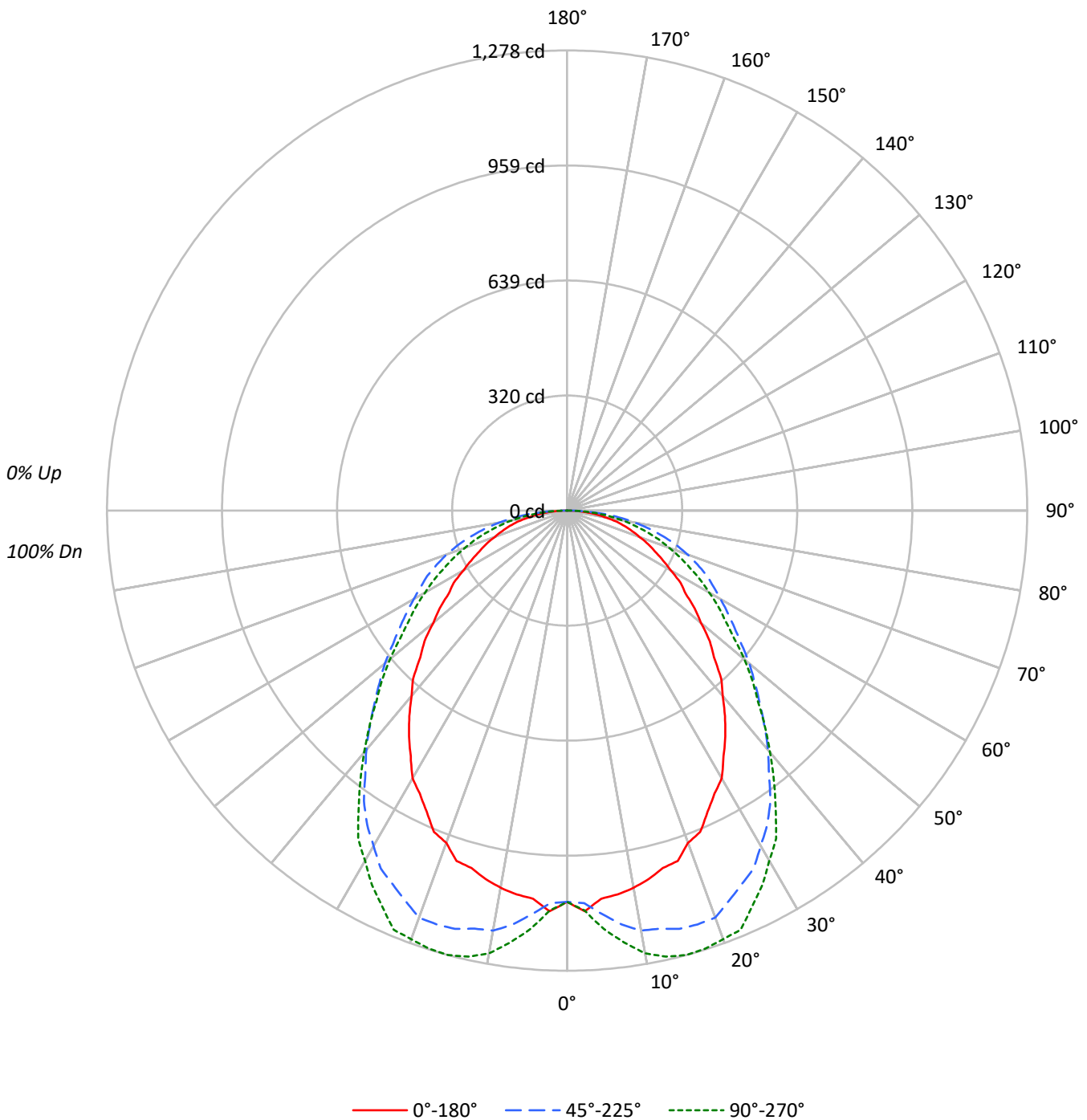
Input Watts (W): 26.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2924	2924	2924
5°	2923	3040	3150
10°	2907	3237	3411
15°	2862	3351	3560
20°	2812	3444	3627
25°	2739	3402	3605
30°	2669	3341	3489
35°	2514	3233	3315
40°	2361	3049	3081
45°	2193	2878	2852
50°	2031	2766	2689
55°	1881	2661	2522
60°	1790	2648	2452
65°	1712	2727	2394
70°	1685	2796	2366
75°	1705	2865	2368
80°	1660	2965	2400
85°	1618	3026	2393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.3
10°-20°	336.2	10.1
20°-30°	517.7	15.6
30°-40°	592.7	17.8
40°-50°	560.2	16.9
50°-60°	475.8	14.3
60°-70°	378.4	11.4
70°-80°	256.5	7.7
80°-90°	95.1	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°	963.5	29.0
0°-40°	1556.1	46.8
0°-60°	2592.1	78.0
0°-90°	3322.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3322.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1082	1105	1125	1164	1166	103
15°	1027	1137	1203	1273	1278	291
25°	923	1078	1146	1207	1214	426
35°	765	920	984	1011	1009	478
45°	576	713	756	765	749	448
55°	401	522	567	554	538	364
65°	269	385	428	392	376	269
75°	164	264	276	237	228	172
85°	52	112	98	80	78	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1113.9	1098.0	1091.1	1113.9	1111.6
5°	1082.0	1104.8	1125.3	1164.0	1166.3
7.5°	1075.2	1127.6	1159.5	1207.3	1209.6
10°	1063.8	1132.1	1184.5	1241.5	1248.3
12.5°	1047.9	1136.7	1189.1	1259.7	1268.8
15°	1027.4	1136.7	1202.8	1273.4	1277.9
17.5°	1020.5	1136.7	1205.0	1266.5	1275.7
20°	981.8	1125.3	1202.8	1257.4	1266.5
22.5°	965.9	1104.8	1173.1	1239.2	1259.7
25°	922.6	1077.5	1145.8	1207.3	1214.2
27.5°	886.1	1047.9	1120.8	1173.1	1173.1
30°	858.8	1011.4	1075.2	1125.3	1123.0
32.5°	808.7	961.3	1034.2	1072.9	1079.8
35°	765.4	920.3	984.1	1011.4	1009.1
37.5°	719.8	867.9	920.3	952.2	943.1
40°	672.0	815.5	867.9	888.4	877.0
42.5°	633.3	760.8	811.0	824.6	813.2
45°	576.3	713.0	756.3	765.4	749.4
47.5°	537.6	660.6	706.2	706.2	697.1
50°	485.2	610.5	660.6	646.9	642.4
52.5°	446.5	567.2	610.5	599.1	585.4
55°	400.9	521.7	567.2	553.5	537.6
57.5°	373.6	485.2	528.5	512.5	498.9
60°	332.6	448.8	492.0	471.5	455.6
62.5°	300.7	416.9	457.9	432.8	416.9
65°	268.8	385.0	428.3	391.8	375.9
67.5°	243.7	355.4	391.8	353.1	339.4
70°	214.1	321.2	355.4	314.4	300.7
72.5°	189.1	293.9	316.6	275.6	266.5
75°	164.0	264.2	275.6	236.9	227.8
77.5°	139.0	234.6	234.6	200.5	191.3
80°	107.1	200.5	191.3	161.7	154.9
82.5°	82.0	159.5	145.8	120.7	116.2
85°	52.4	111.6	98.0	79.7	77.5
87.5°	25.1	59.2	47.8	38.7	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)