

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: P183927

Luminaire Tested: **14SR-LD2-35-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183927
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-LD2-35-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: 3368.8 lumens
Efficiency: N/A
Efficacy: 118.6 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

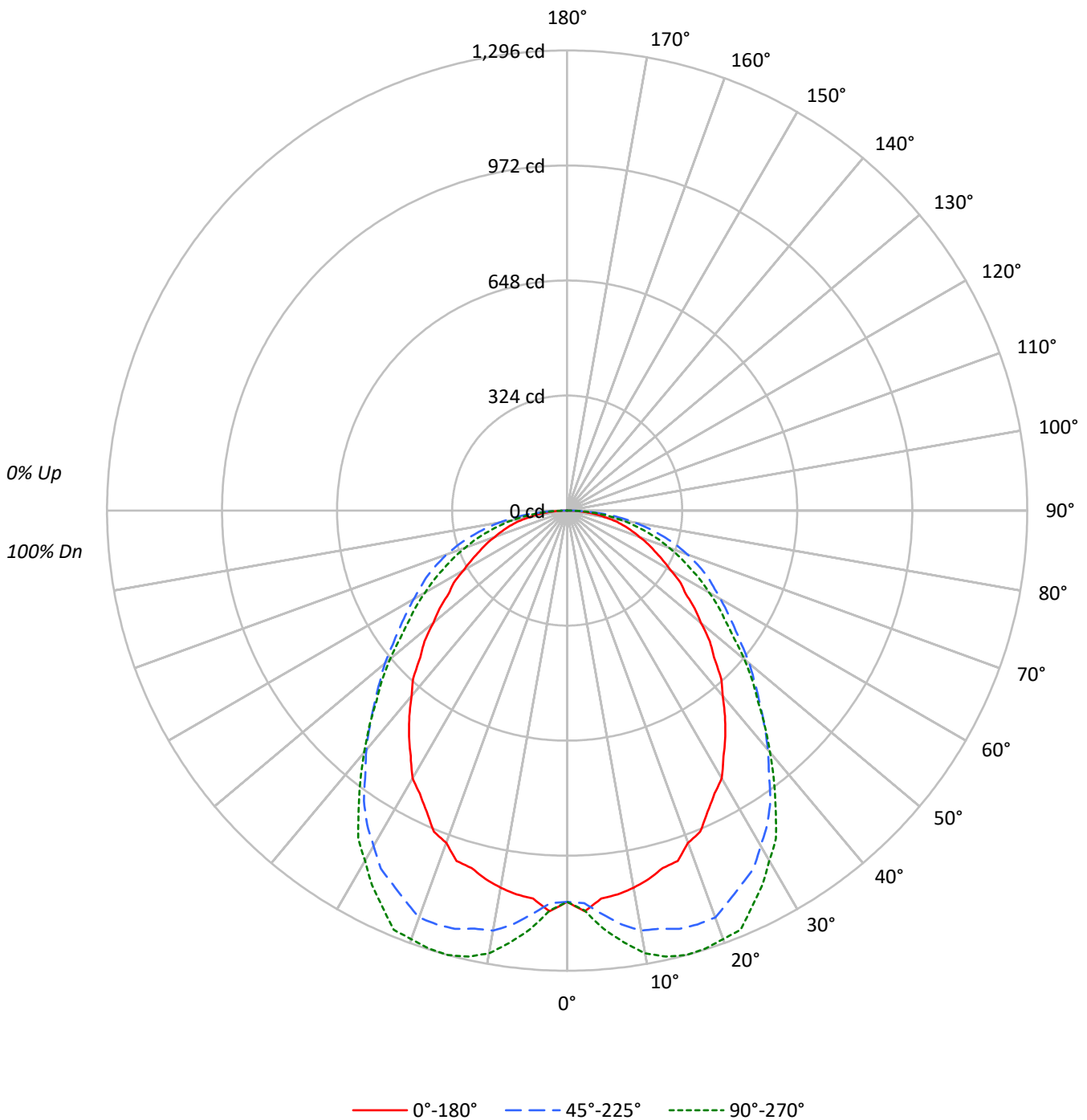
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2965	2965	2965
5°	2964	3082	3195
10°	2948	3282	3459
15°	2902	3398	3610
20°	2851	3493	3678
25°	2778	3450	3656
30°	2706	3388	3539
35°	2550	3278	3362
40°	2394	3092	3124
45°	2224	2919	2892
50°	2060	2804	2727
55°	1908	2699	2557
60°	1815	2686	2486
65°	1736	2765	2427
70°	1708	2836	2399
75°	1729	2906	2402
80°	1683	3006	2435
85°	1639	3066	2424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.3
10°-20°	341.0	10.1
20°-30°	525.0	15.6
30°-40°	601.0	17.8
40°-50°	568.1	16.9
50°-60°	482.5	14.3
60°-70°	383.7	11.4
70°-80°	260.1	7.7
80°-90°	96.4	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°	977.0	29.0
0°-40°	1578.0	46.8
0°-60°	2628.6	78.0
0°-90°	3368.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1097	1120	1141	1180	1183	105
15°	1042	1153	1220	1291	1296	295
25°	936	1093	1162	1224	1231	432
35°	776	933	998	1026	1023	485
45°	584	723	767	776	760	455
55°	407	529	575	561	545	369
65°	273	390	434	397	381	273
75°	166	268	280	240	231	175
85°	53	113	99	81	78	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1101.8	1101.8	1101.8	1101.8	1101.8
2.5°	1129.6	1113.4	1106.5	1129.6	1127.3
5°	1097.2	1120.3	1141.1	1180.4	1182.7
7.5°	1090.3	1143.4	1175.8	1224.3	1226.6
10°	1078.7	1148.0	1201.2	1258.9	1265.9
12.5°	1062.6	1152.7	1205.8	1277.4	1286.6
15°	1041.8	1152.7	1219.7	1291.3	1295.9
17.5°	1034.9	1152.7	1222.0	1284.3	1293.6
20°	995.6	1141.1	1219.7	1275.1	1284.3
22.5°	979.4	1120.3	1189.6	1256.6	1277.4
25°	935.5	1092.6	1161.9	1224.3	1231.2
27.5°	898.6	1062.6	1136.5	1189.6	1189.6
30°	870.9	1025.6	1090.3	1141.1	1138.8
32.5°	820.0	974.8	1048.7	1088.0	1094.9
35°	776.1	933.2	997.9	1025.6	1023.3
37.5°	729.9	880.1	933.2	965.6	956.3
40°	681.4	827.0	880.1	900.9	889.3
42.5°	642.2	771.5	822.3	836.2	824.7
45°	584.4	723.0	766.9	776.1	760.0
47.5°	545.1	669.9	716.1	716.1	706.8
50°	492.0	619.1	669.9	656.0	651.4
52.5°	452.8	575.2	619.1	607.5	593.7
55°	406.6	529.0	575.2	561.3	545.1
57.5°	378.8	492.0	535.9	519.7	505.9
60°	337.3	455.1	499.0	478.2	462.0
62.5°	304.9	422.7	464.3	438.9	422.7
65°	272.6	390.4	434.3	397.3	381.1
67.5°	247.2	360.4	397.3	358.0	344.2
70°	217.1	325.7	360.4	318.8	304.9
72.5°	191.7	298.0	321.1	279.5	270.3
75°	166.3	268.0	279.5	240.2	231.0
77.5°	140.9	237.9	237.9	203.3	194.0
80°	108.6	203.3	194.0	164.0	157.1
82.5°	83.2	161.7	147.8	122.4	117.8
85°	53.1	113.2	99.3	80.8	78.5
87.5°	25.4	60.1	48.5	39.3	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)