

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: P183943

Luminaire Tested: **14SR-LD2-15-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183943
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-LD2-15-S-UNV-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1453.6 lumens
Efficiency: N/A
Efficacy: 107.7 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

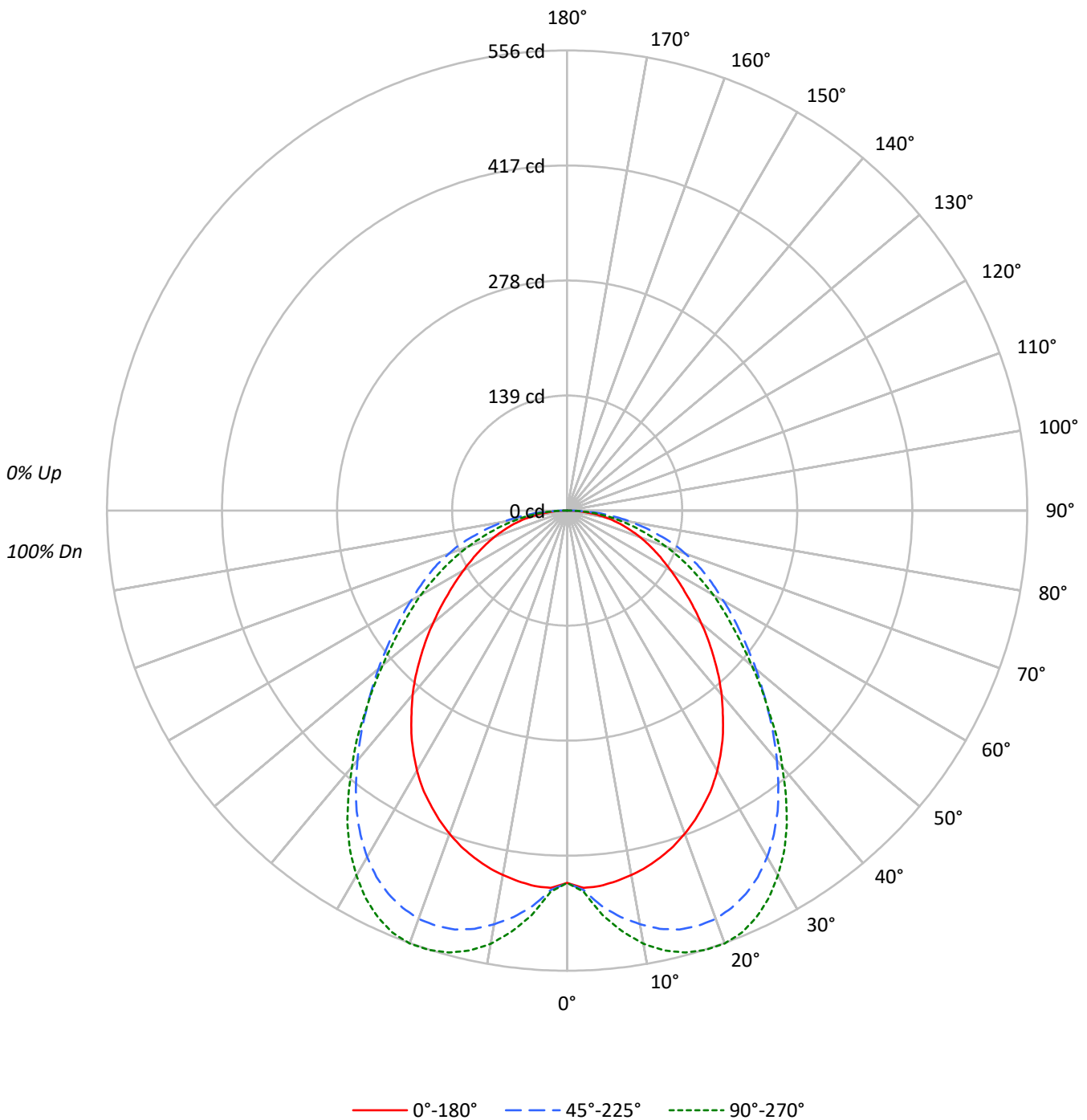
Input Watts (W): 13.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1210	1210	1210
5°	1230	1296	1325
10°	1222	1386	1452
15°	1209	1460	1540
20°	1190	1503	1594
25°	1162	1518	1608
30°	1127	1502	1582
35°	1078	1456	1520
40°	1020	1385	1421
45°	953	1310	1313
50°	885	1247	1220
55°	822	1197	1144
60°	779	1173	1098
65°	750	1181	1046
70°	737	1197	999
75°	733	1196	955
80°	719	1207	934
85°	689	1260	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	3.2
10°-20°	144.0	9.9
20°-30°	226.0	15.5
30°-40°	263.5	18.1
40°-50°	250.7	17.2
50°-60°	211.7	14.6
60°-70°	164.9	11.3
70°-80°	107.6	7.4
80°-90°	39.1	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°	416.1	28.6
0°-40°	679.6	46.8
0°-60°	1142.0	78.6
0°-90°	1453.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	455	457	480	491	491	43
15°	434	477	524	547	553	122
25°	391	455	511	535	542	180
35°	328	393	443	459	463	205
45°	250	307	344	348	345	193
55°	175	230	255	248	244	158
65°	118	169	186	171	164	117
75°	70	113	115	96	92	74
85°	22	48	41	32	31	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	449.8	449.8	449.8	449.8	449.8
2.5°	456.3	450.8	459.1	464.7	461.0
5°	455.4	457.3	479.6	490.6	490.6
7.5°	451.7	464.7	495.3	510.1	512.9
10°	447.1	471.2	507.4	526.9	531.5
12.5°	441.5	475.8	517.6	538.9	544.5
15°	434.1	476.8	524.1	547.2	552.8
17.5°	425.7	474.9	525.9	551.0	556.5
20°	415.5	471.2	525.0	550.0	556.5
22.5°	404.4	464.7	519.4	544.5	551.9
25°	391.4	455.4	511.1	535.2	541.7
27.5°	378.4	442.5	499.0	521.2	527.7
30°	362.7	428.5	483.3	504.6	509.2
32.5°	345.9	411.8	464.7	484.1	487.9
35°	328.3	393.2	443.3	459.1	462.8
37.5°	308.8	371.9	419.2	433.2	434.1
40°	290.3	350.6	394.2	405.3	404.4
42.5°	270.8	329.3	369.2	376.6	376.6
45°	250.4	307.0	344.1	347.8	345.1
47.5°	230.9	286.6	320.0	320.9	318.1
50°	211.5	266.2	297.8	295.0	291.3
52.5°	192.9	246.7	275.5	269.9	266.2
55°	175.3	230.0	255.1	247.7	243.9
57.5°	159.5	213.4	236.5	227.2	223.5
60°	144.7	197.6	217.9	207.8	204.1
62.5°	130.8	182.8	201.3	189.2	183.6
65°	117.8	168.8	185.5	170.7	164.2
67.5°	105.7	154.9	169.8	151.2	145.6
70°	93.7	141.0	152.1	132.7	127.0
72.5°	81.6	127.0	135.4	114.1	108.5
75°	70.5	113.2	115.0	96.4	91.9
77.5°	58.4	101.1	97.4	79.8	75.1
80°	46.4	85.4	77.9	63.1	60.3
82.5°	34.3	66.8	59.4	47.3	45.4
85°	22.3	48.3	40.8	31.5	30.6
87.5°	11.1	26.0	20.4	15.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)