

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: P275813

Luminaire Tested: **14CZ2-35-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2185.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

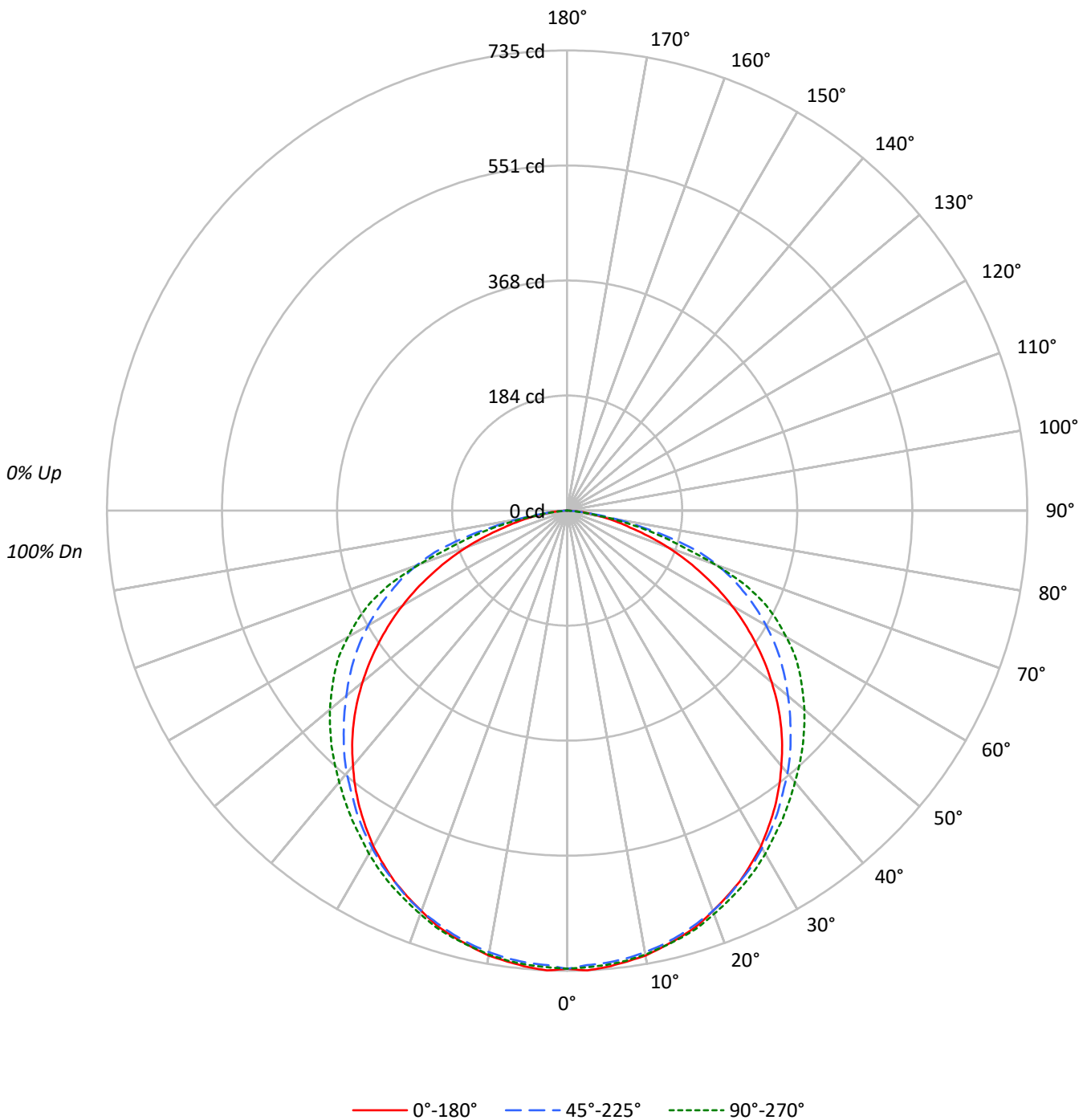
Input Watts (W): 27.528
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1969	1969	1969
5°	1977	1958	1968
10°	1972	1958	1967
15°	1963	1953	1967
20°	1949	1949	1964
25°	1940	1940	1965
30°	1924	1935	1967
35°	1900	1928	1973
40°	1870	1924	1989
45°	1837	1921	2025
50°	1786	1928	2071
55°	1721	1953	2129
60°	1634	1974	2176
65°	1510	1999	2205
70°	1342	2013	1973
75°	1082	1809	1578
80°	846	1269	1031
85°	580	367	262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.2
10°-20°	198.7	9.1
20°-30°	302.6	13.8
30°-40°	368.6	16.9
40°-50°	391.0	17.9
50°-60°	369.0	16.9
60°-70°	298.0	13.6
70°-80°	161.6	7.4
80°-90°	26.1	1.2
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°	570.6	26.1
0°-40°	939.2	43.0
0°-60°	1699.2	77.8
0°-90°	2185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	732	730	725	730	728	70
15°	704	703	701	706	706	199
25°	653	652	653	660	662	301
35°	578	582	587	599	600	362
45°	483	490	505	524	532	372
55°	367	382	416	444	454	328
65°	237	266	314	340	346	235
75°	104	152	174	157	152	114
85°	19	20	12	10	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731.8	731.8	731.8	731.8	731.8
2.5°	735.2	731.8	726.7	731.8	730.1
5°	731.8	730.1	725.0	730.1	728.4
7.5°	726.7	726.7	721.6	725.0	725.0
10°	721.6	719.9	716.5	721.6	719.9
12.5°	713.0	711.3	709.6	714.8	713.0
15°	704.5	702.8	701.1	706.2	706.2
17.5°	694.3	692.6	690.9	697.7	697.7
20°	680.6	680.6	680.6	687.5	685.8
22.5°	667.0	667.0	668.7	675.5	673.8
25°	653.3	651.6	653.3	660.2	661.9
27.5°	636.3	638.0	639.7	646.5	648.2
30°	619.2	620.9	622.6	631.2	632.9
32.5°	598.8	602.2	605.6	615.8	615.8
35°	578.3	581.7	586.8	598.8	600.5
37.5°	556.1	559.5	566.3	580.0	583.4
40°	532.2	537.3	547.6	561.2	566.3
42.5°	508.3	515.2	527.1	542.5	549.3
45°	482.8	489.6	504.9	523.7	532.2
47.5°	455.5	464.0	482.8	506.6	513.5
50°	426.5	438.4	460.6	486.2	494.7
52.5°	397.5	411.1	438.4	465.7	474.2
55°	366.8	382.1	416.2	443.5	453.8
57.5°	336.1	353.1	392.3	421.3	431.6
60°	303.6	324.1	366.8	395.8	404.3
62.5°	271.2	295.1	341.2	370.2	377.0
65°	237.1	266.1	313.9	339.5	346.3
67.5°	204.7	238.8	286.6	305.3	305.3
70°	170.6	208.1	255.9	261.0	250.8
72.5°	136.5	179.1	221.8	203.0	194.5
75°	104.1	151.8	174.0	156.9	151.8
77.5°	78.5	122.8	122.8	112.6	109.2
80°	54.6	93.8	81.9	71.6	66.5
82.5°	35.8	52.9	42.6	34.1	29.0
85°	18.8	20.5	11.9	10.2	8.5
87.5°	6.8	3.4	1.7	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)