

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: P275871

Luminaire Tested: **14CZ2-35-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275871
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2100.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

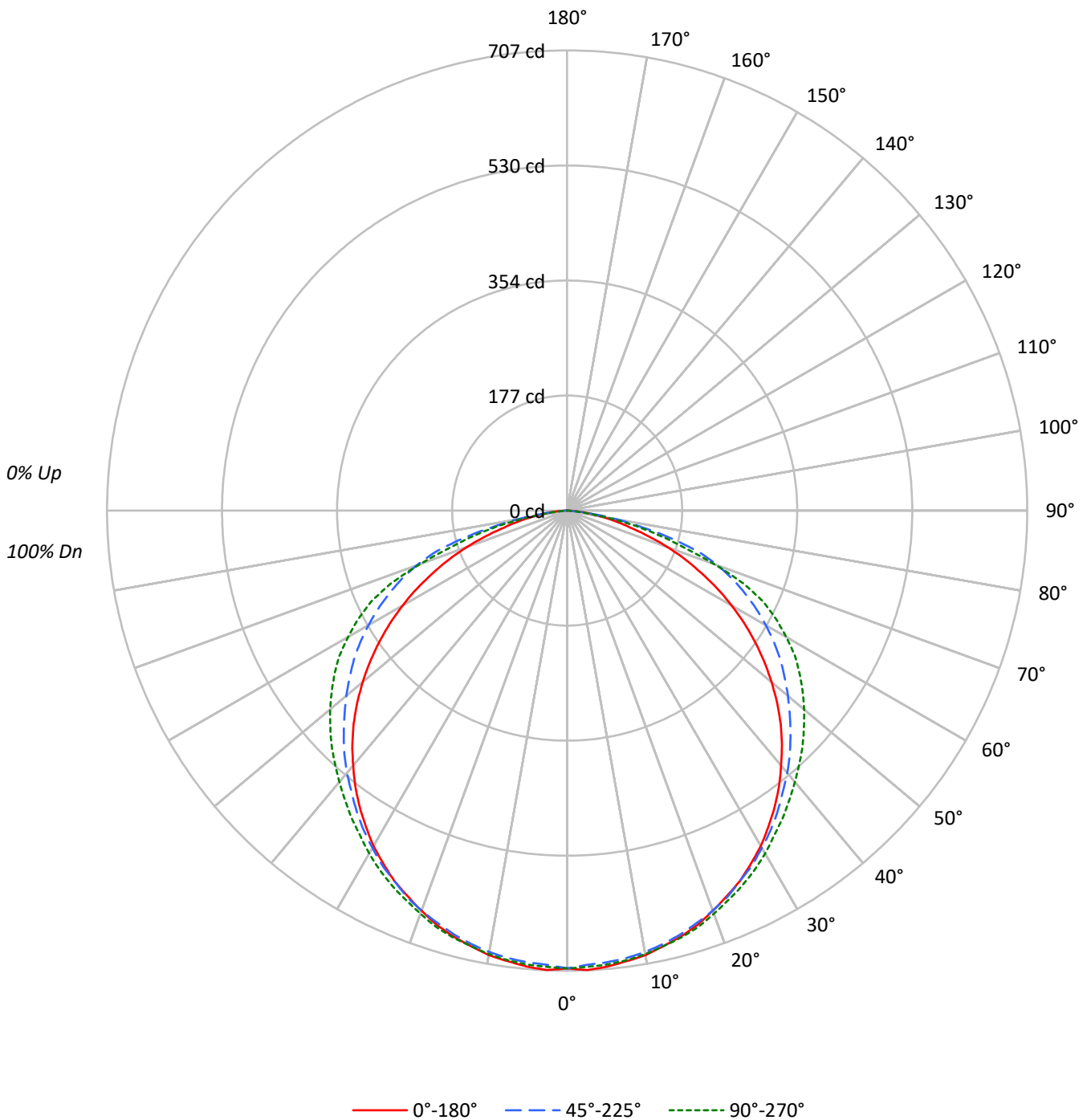
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1893	1893	1893
5°	1900	1882	1891
10°	1895	1882	1891
15°	1886	1877	1891
20°	1873	1873	1887
25°	1864	1864	1889
30°	1849	1859	1890
35°	1826	1853	1896
40°	1797	1849	1912
45°	1766	1847	1947
50°	1716	1853	1991
55°	1654	1877	2046
60°	1570	1897	2091
65°	1451	1921	2119
70°	1290	1935	1896
75°	1040	1738	1517
80°	814	1220	990
85°	556	355	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.2
10°-20°	191.0	9.1
20°-30°	290.8	13.8
30°-40°	354.2	16.9
40°-50°	375.8	17.9
50°-60°	354.7	16.9
60°-70°	286.4	13.6
70°-80°	155.3	7.4
80°-90°	25.1	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°	548.4	26.1
0°-40°	902.6	43.0
0°-60°	1633.2	77.8
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	703	702	697	702	700	67
15°	677	676	674	679	679	191
25°	628	626	628	634	636	289
35°	556	559	564	576	577	347
45°	464	470	485	503	512	357
55°	352	367	400	426	436	315
65°	228	256	302	326	333	226
75°	100	146	167	151	146	109
85°	18	20	12	10	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	703.3	703.3	703.3	703.3	703.3
2.5°	706.6	703.3	698.4	703.3	701.7
5°	703.3	701.7	696.8	701.7	700.1
7.5°	698.4	698.4	693.5	696.8	696.8
10°	693.5	691.9	688.6	693.5	691.9
12.5°	685.3	683.7	682.0	686.9	685.3
15°	677.1	675.5	673.8	678.8	678.8
17.5°	667.3	665.6	664.0	670.6	670.6
20°	654.2	654.2	654.2	660.7	659.1
22.5°	641.0	641.0	642.7	649.2	647.6
25°	627.9	626.3	627.9	634.5	636.1
27.5°	611.5	613.2	614.8	621.4	623.0
30°	595.1	596.8	598.4	606.6	608.3
32.5°	575.5	578.7	582.0	591.9	591.9
35°	555.8	559.1	564.0	575.5	577.1
37.5°	534.5	537.8	544.3	557.4	560.7
40°	511.5	516.4	526.3	539.4	544.3
42.5°	488.6	495.1	506.6	521.4	527.9
45°	464.0	470.5	485.3	503.3	511.5
47.5°	437.7	445.9	464.0	486.9	493.5
50°	409.9	421.4	442.7	467.3	475.5
52.5°	382.0	395.1	421.4	447.6	455.8
55°	352.5	367.2	400.0	426.3	436.1
57.5°	323.0	339.4	377.1	405.0	414.8
60°	291.8	311.5	352.5	380.4	388.6
62.5°	260.7	283.6	327.9	355.8	362.3
65°	227.9	255.8	301.7	326.3	332.8
67.5°	196.7	229.5	275.4	293.5	293.5
70°	163.9	200.0	245.9	250.8	241.0
72.5°	131.2	172.1	213.1	195.1	186.9
75°	100.0	145.9	167.2	150.8	145.9
77.5°	75.4	118.0	118.0	108.2	104.9
80°	52.5	90.2	78.7	68.9	63.9
82.5°	34.4	50.8	41.0	32.8	27.9
85°	18.0	19.7	11.5	9.8	8.2
87.5°	6.6	3.3	1.6	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)