

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: P275779

Luminaire Tested: **14CZ2-44-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275779
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: 14CZ2-44-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2147.0 lumens
Efficiency: N/A
Efficacy: 58.9 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

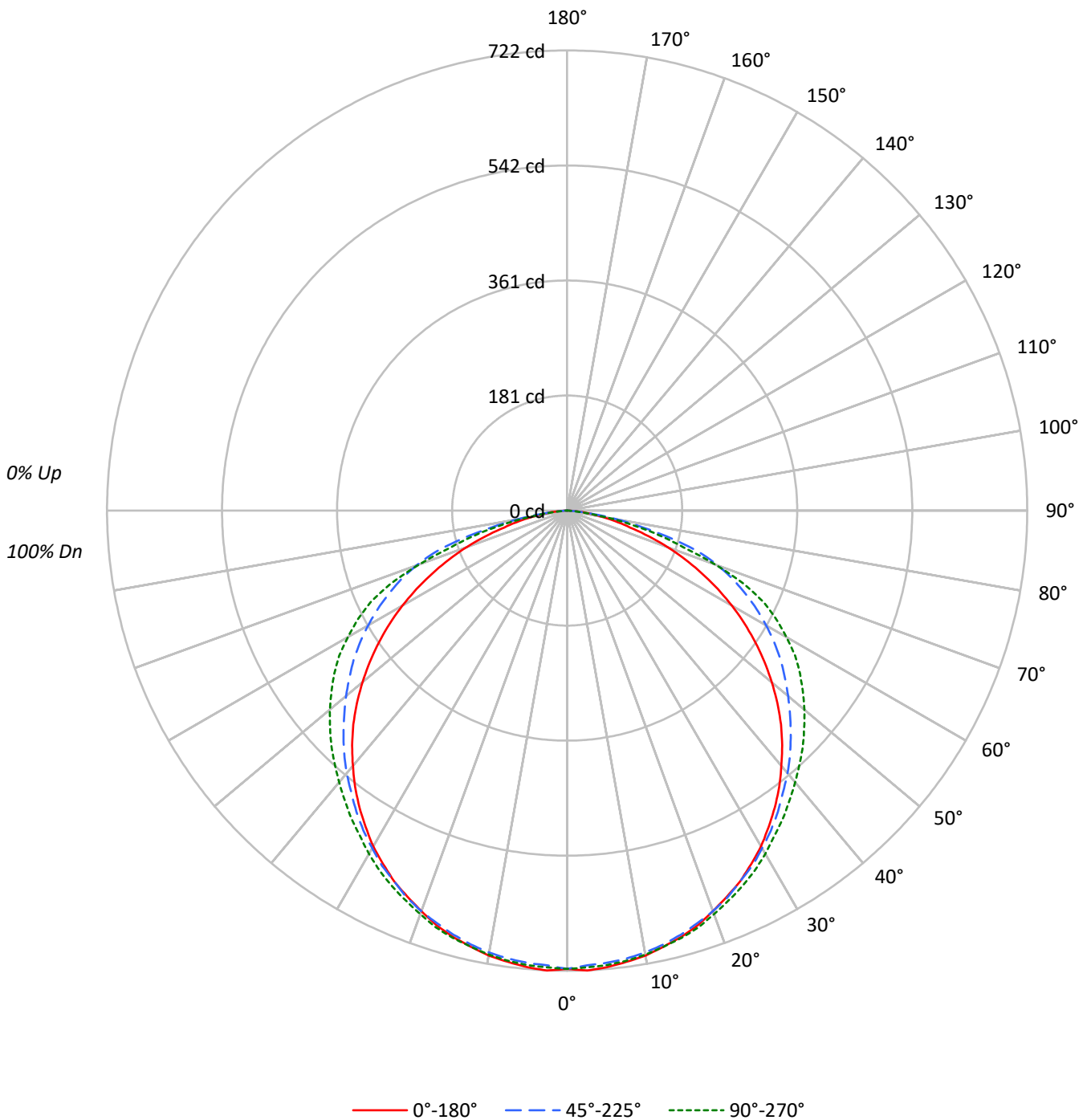
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275779

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P275779

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L93050-W2A1-U-3000K

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°	1935	1935	1935
5°	1942	1924	1933
10°	1937	1924	1933
15°	1929	1919	1933
20°	1915	1915	1930
25°	1906	1906	1931
30°	1891	1901	1932
35°	1867	1894	1938
40°	1837	1890	1955
45°	1805	1888	1990
50°	1754	1895	2035
55°	1691	1919	2092
60°	1606	1940	2138
65°	1484	1964	2167
70°	1319	1978	1939
75°	1063	1778	1551
80°	831	1247	1013
85°	568	361	259



TEST NUMBER: P275779

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	3.2
10°-20°	195.3	9.1
20°-30°	297.3	13.8
30°-40°	362.2	16.9
40°-50°	384.2	17.9
50°-60°	362.6	16.9
60°-70°	292.8	13.6
70°-80°	158.8	7.4
80°-90°	25.7	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°	560.7	26.1
0°-40°	922.8	43.0
0°-60°	1669.7	77.8
0°-90°	2147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	719	717	712	717	716	68
15°	692	691	689	694	694	195
25°	642	640	642	649	650	296
35°	568	572	577	588	590	355
45°	474	481	496	515	523	365
55°	360	376	409	436	446	322
65°	233	262	308	334	340	231
75°	102	149	171	154	149	112
85°	18	20	12	10	8	24
90°	0	0	0	0	0	



TEST NUMBER: P275779

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.1	719.1	719.1	719.1	719.1
2.5°	722.4	719.1	714.1	719.1	717.4
5°	719.1	717.4	712.4	717.4	715.7
7.5°	714.1	714.1	709.0	712.4	712.4
10°	709.0	707.4	704.0	709.0	707.4
12.5°	700.6	699.0	697.3	702.3	700.6
15°	692.3	690.6	688.9	693.9	693.9
17.5°	682.2	680.5	678.9	685.6	685.6
20°	668.8	668.8	668.8	675.5	673.8
22.5°	655.4	655.4	657.1	663.8	662.1
25°	642.0	640.3	642.0	648.7	650.4
27.5°	625.2	626.9	628.6	635.3	637.0
30°	608.5	610.1	611.8	620.2	621.9
32.5°	588.3	591.7	595.0	605.1	605.1
35°	568.2	571.6	576.6	588.3	590.0
37.5°	546.4	549.8	556.5	569.9	573.3
40°	523.0	528.0	538.1	551.5	556.5
42.5°	499.5	506.2	517.9	533.0	539.7
45°	474.4	481.1	496.2	514.6	523.0
47.5°	447.5	455.9	474.4	497.8	504.5
50°	419.0	430.8	452.6	477.7	486.1
52.5°	390.6	404.0	430.8	457.6	466.0
55°	360.4	375.5	409.0	435.8	445.9
57.5°	330.2	347.0	385.5	414.0	424.1
60°	298.4	318.5	360.4	388.9	397.3
62.5°	266.5	290.0	335.2	363.7	370.4
65°	233.0	261.5	308.4	333.6	340.3
67.5°	201.1	234.7	281.6	300.0	300.0
70°	167.6	204.5	251.4	256.5	246.4
72.5°	134.1	176.0	217.9	199.5	191.1
75°	102.2	149.2	171.0	154.2	149.2
77.5°	77.1	120.7	120.7	110.6	107.3
80°	53.6	92.2	80.5	70.4	65.4
82.5°	35.2	52.0	41.9	33.5	28.5
85°	18.4	20.1	11.7	10.1	8.4
87.5°	6.7	3.4	1.7	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)