

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: P275514

Luminaire Tested: **14CZ2-25-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2143.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

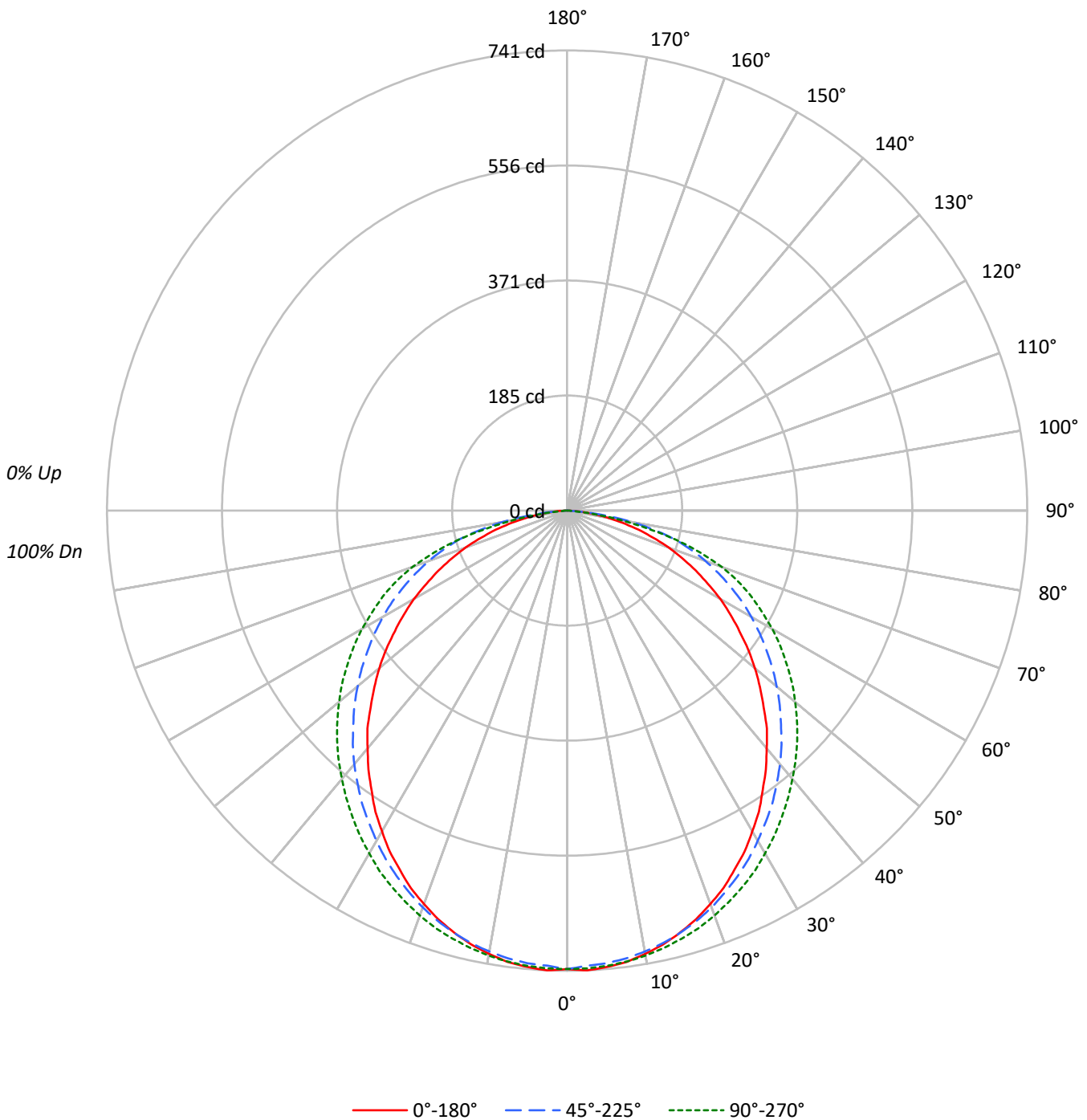
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1987	1987	1987
5°	1993	1976	1988
10°	1981	1970	1989
15°	1960	1961	1987
20°	1931	1947	1987
25°	1894	1928	1985
30°	1853	1908	1981
35°	1804	1892	1980
40°	1756	1873	1982
45°	1702	1853	1993
50°	1652	1845	2007
55°	1590	1838	2024
60°	1533	1841	2052
65°	1454	1847	2084
70°	1365	1861	2083
75°	1237	1878	1883
80°	1015	1621	1340
85°	753	766	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.3
10°-20°	199.6	9.3
20°-30°	300.6	14.0
30°-40°	360.7	16.8
40°-50°	376.0	17.5
50°-60°	348.1	16.2
60°-70°	281.3	13.1
70°-80°	171.5	8.0
80°-90°	35.4	1.7
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°	570.0	26.6
0°-40°	930.8	43.4
0°-60°	1654.9	77.2
0°-90°	2143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	738	736	732	737	736	70
15°	703	704	704	713	713	198
25°	638	642	649	666	668	294
35°	549	558	576	597	603	344
45°	447	461	487	514	524	346
55°	339	356	392	422	432	304
65°	228	251	290	319	327	226
75°	119	145	181	184	181	125
85°	24	36	25	14	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.3	738.3	738.3	738.3	738.3
2.5°	741.1	738.7	733.5	738.7	737.8
5°	737.8	735.9	731.6	736.8	735.9
7.5°	733.0	731.1	727.3	733.5	732.5
10°	724.9	723.9	721.1	728.2	727.8
12.5°	715.3	714.9	713.4	721.5	721.1
15°	703.4	703.9	703.9	713.4	713.4
17.5°	690.0	691.0	692.9	703.4	704.8
20°	674.2	676.2	680.0	691.9	693.8
22.5°	658.0	659.4	665.2	679.5	681.4
25°	637.9	641.7	649.4	665.6	668.5
27.5°	618.8	622.2	632.7	649.4	654.2
30°	596.4	601.6	614.0	632.2	637.4
32.5°	574.8	580.6	594.9	615.9	620.7
35°	549.0	557.6	575.8	596.8	602.6
37.5°	525.6	533.8	554.3	577.2	583.9
40°	499.8	509.9	533.3	557.6	564.3
42.5°	475.9	485.5	510.8	535.7	544.7
45°	447.3	460.6	486.9	514.2	523.7
47.5°	421.0	434.4	464.5	493.6	502.2
50°	394.7	409.0	440.6	470.7	479.3
52.5°	367.5	382.8	416.7	446.8	456.8
55°	338.8	356.5	391.8	422.4	431.5
57.5°	311.6	329.7	367.5	398.5	407.6
60°	284.8	303.4	342.1	371.8	381.3
62.5°	255.2	277.2	317.3	346.4	353.6
65°	228.4	250.9	290.1	319.2	327.3
67.5°	200.2	224.6	263.8	290.5	298.2
70°	173.5	198.8	236.5	261.4	264.7
72.5°	144.8	170.6	208.8	224.6	224.6
75°	119.0	145.3	180.6	183.5	181.1
77.5°	90.8	119.9	142.9	137.1	131.4
80°	65.5	94.1	104.6	94.1	86.5
82.5°	44.0	68.3	63.1	50.2	44.4
85°	24.4	36.3	24.8	13.9	10.0
87.5°	9.1	8.1	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)