

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: P275453

Luminaire Tested: **14CZ2-20-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275453
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: 14CZ2-20-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2141.0 lumens
Efficiency: N/A
Efficacy: 136.2 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

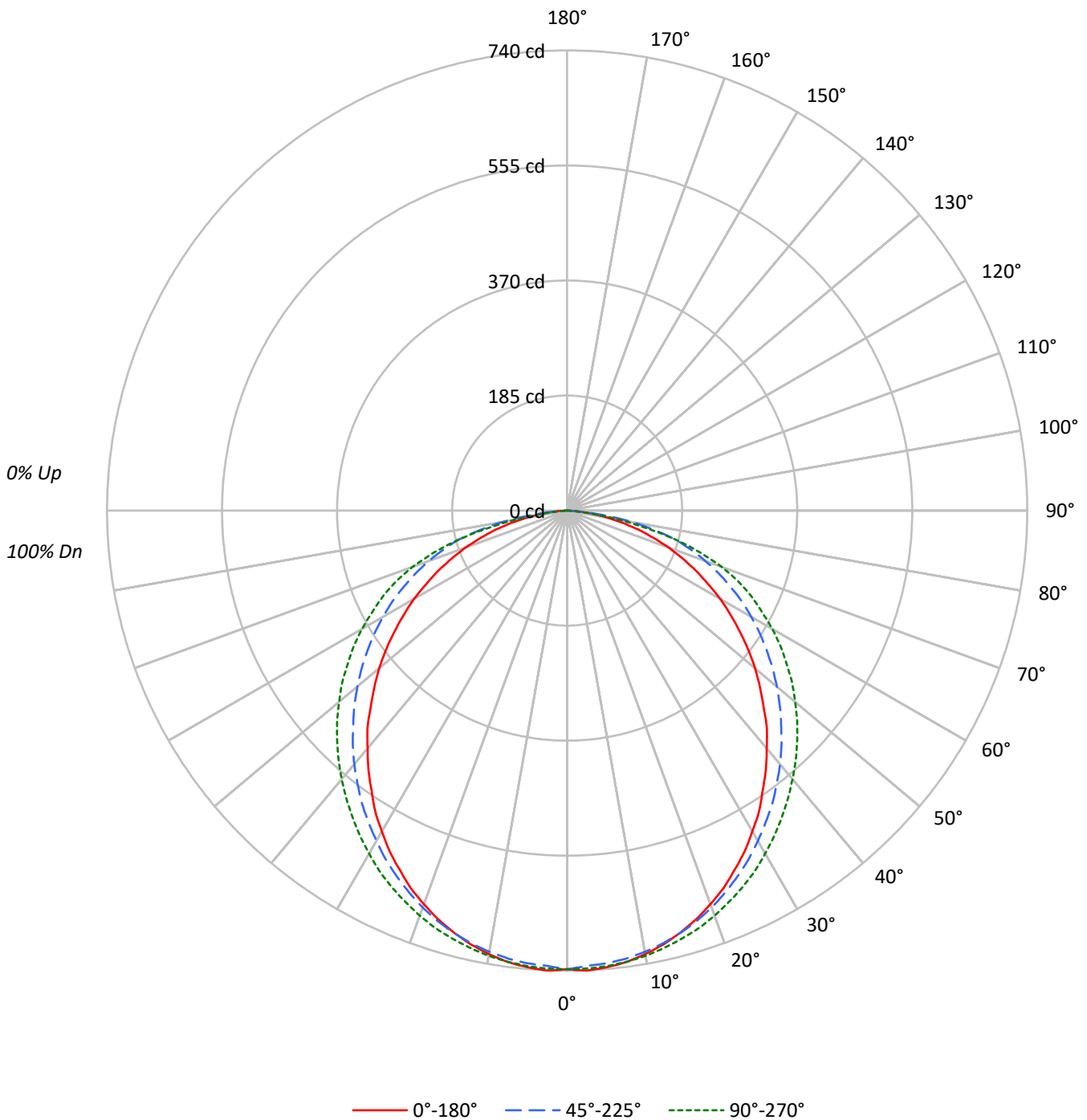
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1985	1985	1985
5°	1991	1974	1986
10°	1979	1968	1987
15°	1958	1959	1986
20°	1929	1945	1985
25°	1892	1926	1983
30°	1851	1906	1979
35°	1802	1890	1978
40°	1754	1872	1981
45°	1700	1851	1991
50°	1651	1843	2004
55°	1588	1837	2023
60°	1531	1840	2051
65°	1453	1845	2082
70°	1364	1859	2081
75°	1236	1877	1881
80°	1013	1621	1339
85°	750	766	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.3
10°-20°	199.4	9.3
20°-30°	300.3	14.0
30°-40°	360.4	16.8
40°-50°	375.6	17.5
50°-60°	347.8	16.2
60°-70°	281.0	13.1
70°-80°	171.3	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°	569.5	26.6
0°-40°	929.9	43.4
0°-60°	1653.3	77.2
0°-90°	2141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	737	735	731	736	735	70
15°	703	703	703	713	713	198
25°	637	641	649	665	668	294
35°	548	557	575	596	602	344
45°	447	460	486	514	523	345
55°	338	356	392	422	431	303
65°	228	251	290	319	327	226
75°	119	145	180	183	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°	737.6	737.6	737.6	737.6	737.6
2.5°	740.4	738.1	732.8	738.1	737.1
5°	737.1	735.2	730.9	736.1	735.2
7.5°	732.3	730.4	726.6	732.8	731.9
10°	724.2	723.3	720.4	727.6	727.1
12.5°	714.7	714.2	712.8	720.9	720.4
15°	702.7	703.2	703.2	712.8	712.8
17.5°	689.4	690.3	692.2	702.7	704.2
20°	673.6	675.5	679.3	691.3	693.2
22.5°	657.4	658.8	664.5	678.9	680.8
25°	637.3	641.1	648.8	665.0	667.9
27.5°	618.2	621.6	632.1	648.8	653.6
30°	595.8	601.0	613.5	631.6	636.9
32.5°	574.3	580.0	594.4	615.4	620.1
35°	548.5	557.1	575.3	596.3	602.0
37.5°	525.1	533.3	553.8	576.7	583.4
40°	499.4	509.4	532.8	557.1	563.8
42.5°	475.5	485.0	510.3	535.2	544.2
45°	446.8	460.2	486.5	513.7	523.2
47.5°	420.6	434.0	464.0	493.2	501.7
50°	394.3	408.7	440.2	470.2	478.8
52.5°	367.1	382.4	416.3	446.4	456.4
55°	338.5	356.1	391.5	422.0	431.1
57.5°	311.3	329.4	367.1	398.2	407.2
60°	284.5	303.1	341.8	371.4	381.0
62.5°	254.9	276.9	317.0	346.1	353.3
65°	228.2	250.6	289.8	318.9	327.0
67.5°	200.0	224.4	263.5	290.3	297.9
70°	173.3	198.6	236.3	261.1	264.5
72.5°	144.7	170.4	208.6	224.4	224.4
75°	118.9	145.1	180.5	183.3	180.9
77.5°	90.7	119.8	142.7	137.0	131.3
80°	65.4	94.0	104.6	94.0	86.4
82.5°	43.9	68.3	63.0	50.1	44.4
85°	24.3	36.3	24.8	13.8	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)