

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: P275592

Luminaire Tested: **14CZ2-25-S-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-S-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2083.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

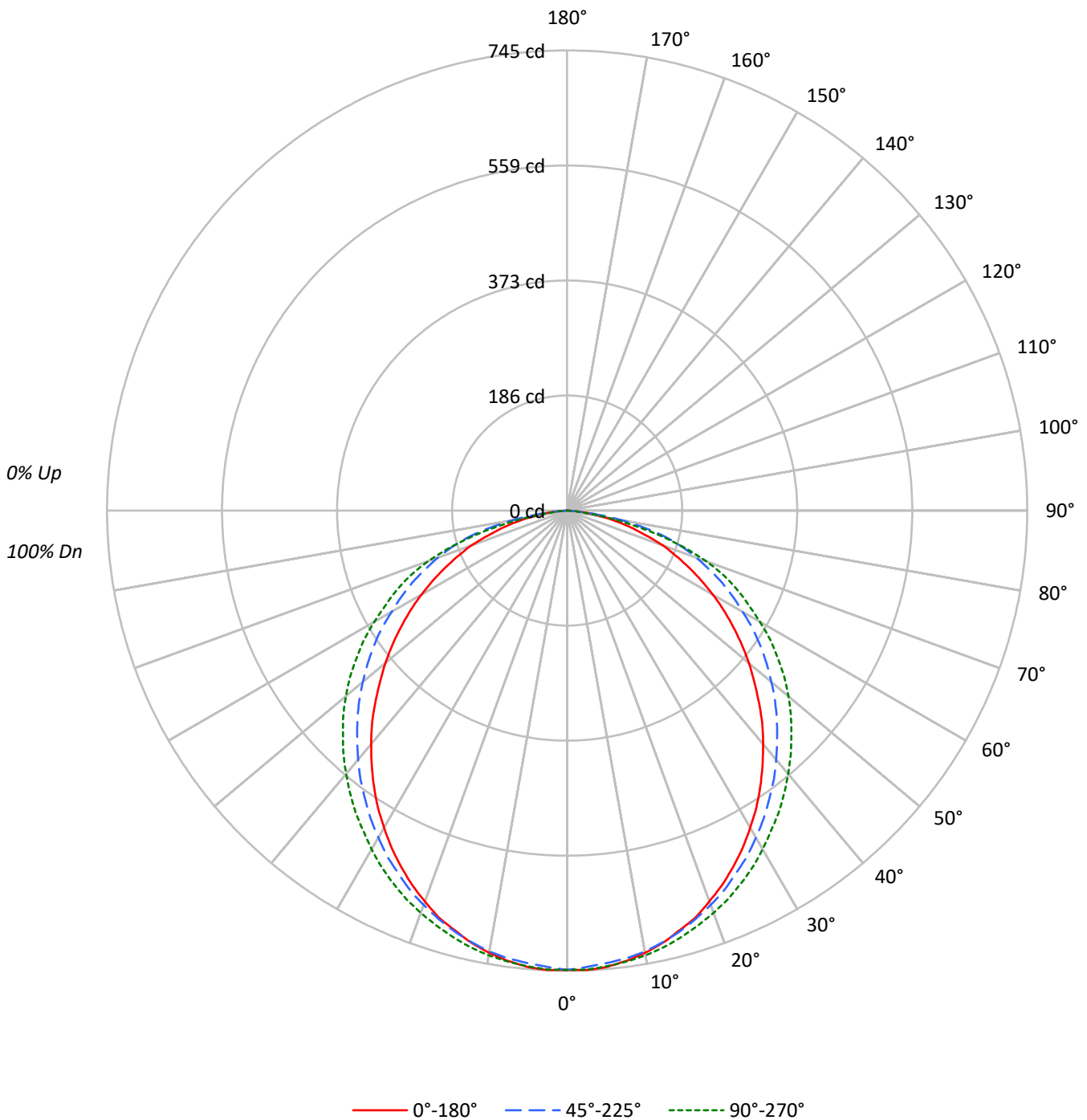
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2001	2001	2001
5°	2003	1986	2000
10°	1987	1981	1998
15°	1959	1965	1991
20°	1928	1946	1985
25°	1889	1923	1978
30°	1842	1900	1967
35°	1791	1873	1961
40°	1734	1850	1956
45°	1670	1827	1953
50°	1608	1807	1958
55°	1541	1793	1953
60°	1468	1767	1940
65°	1381	1762	1940
70°	1300	1747	1885
75°	1127	1707	1611
80°	913	1376	1072
85°	605	479	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	3.4
10°-20°	199.8	9.6
20°-30°	299.7	14.4
30°-40°	357.5	17.2
40°-50°	369.6	17.7
50°-60°	337.5	16.2
60°-70°	265.6	12.7
70°-80°	154.6	7.4
80°-90°	28.5	1.4
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°	569.7	27.4
0°-40°	927.3	44.5
0°-60°	1634.4	78.5
0°-90°	2083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	742	740	735	742	740	70
15°	703	704	705	715	715	198
25°	636	639	648	663	666	293
35°	545	552	570	592	597	341
45°	439	453	480	507	513	339
55°	328	346	382	410	416	294
65°	217	240	277	298	305	215
75°	108	134	164	161	155	115
85°	20	28	16	12	10	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.6	743.6	743.6	743.6	743.6
2.5°	744.6	742.6	739.5	744.6	743.6
5°	741.5	739.5	735.3	741.5	740.5
7.5°	735.3	733.3	731.2	737.4	736.4
10°	727.1	726.0	725.0	732.2	731.2
12.5°	716.7	716.7	715.7	724.0	724.0
15°	703.3	704.4	705.4	714.7	714.7
17.5°	690.9	689.9	693.0	703.3	704.4
20°	673.4	675.4	679.6	692.0	693.0
22.5°	655.8	657.9	665.1	677.5	680.6
25°	636.2	639.3	647.5	663.0	666.1
27.5°	615.5	619.7	631.0	647.5	650.6
30°	592.8	599.0	611.4	630.0	633.1
32.5°	570.1	576.3	591.8	610.4	614.5
35°	545.3	552.5	570.1	591.8	596.9
37.5°	519.5	528.8	549.4	571.1	577.3
40°	493.7	504.0	526.7	549.4	556.7
42.5°	467.8	478.2	503.0	528.8	536.0
45°	438.9	453.4	480.2	507.1	513.3
47.5°	411.0	426.5	456.5	483.3	491.6
50°	384.2	399.7	431.7	459.6	467.8
52.5°	356.3	372.8	406.9	435.8	443.1
55°	328.4	346.0	382.1	410.0	416.2
57.5°	300.5	319.1	356.3	383.2	390.4
60°	272.7	292.3	328.4	355.3	360.4
62.5°	244.8	265.4	302.6	326.4	331.5
65°	216.9	239.6	276.8	298.5	304.7
67.5°	190.0	212.8	248.9	269.6	274.7
70°	165.2	185.9	222.0	237.5	239.6
72.5°	134.3	160.1	195.2	203.5	198.3
75°	108.4	134.3	164.2	161.1	154.9
77.5°	82.6	108.4	128.1	117.7	109.5
80°	58.9	84.7	88.8	73.3	69.2
82.5°	38.2	58.9	49.6	38.2	31.0
85°	19.6	27.9	15.5	12.4	10.3
87.5°	6.2	4.1	2.1	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)