

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: P275681

Luminaire Tested: **14CZ2-25-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275681
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-L92765-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: 2097.0 lumens
Efficiency: N/A
Efficacy: 115.0 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

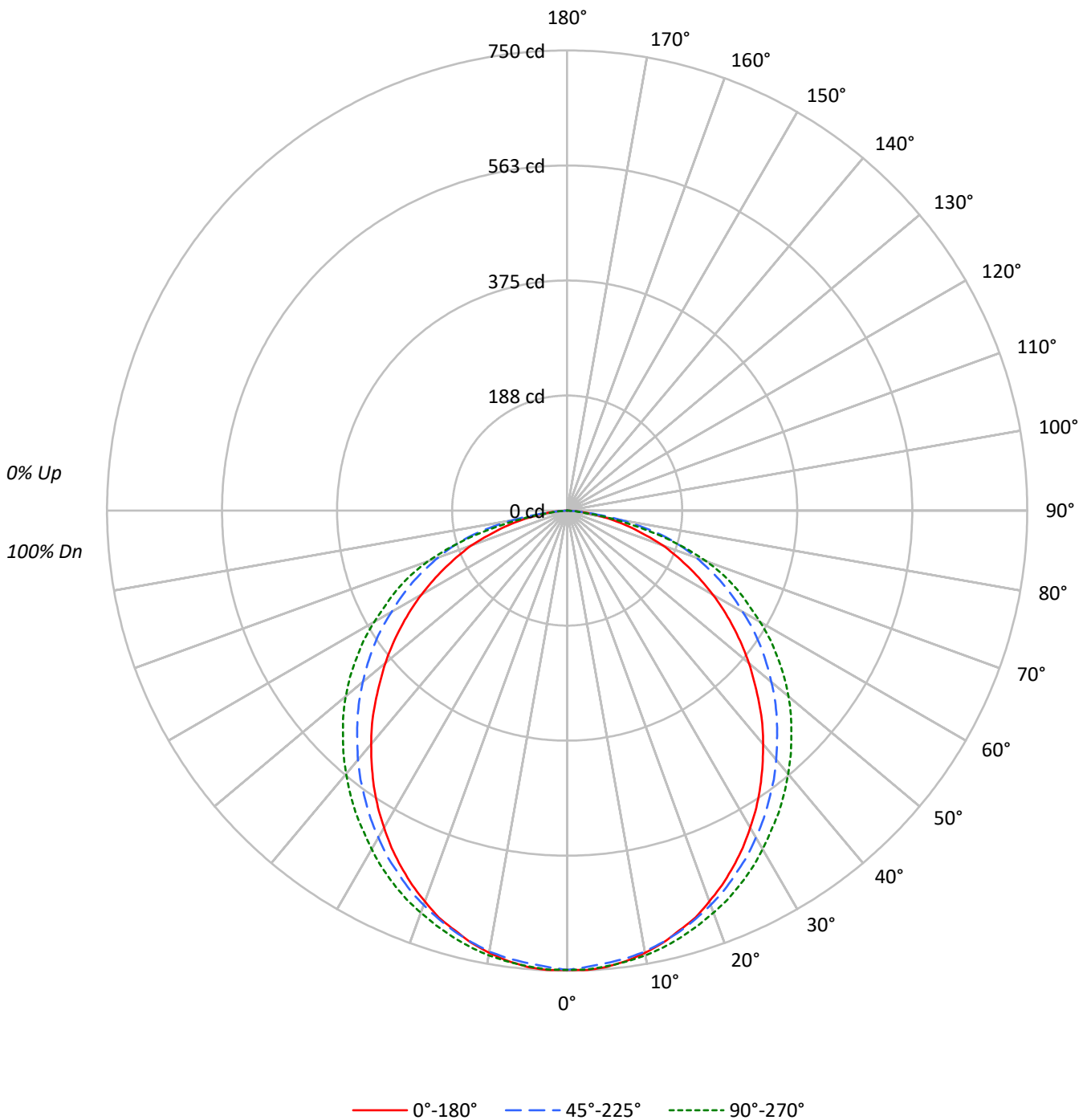
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2014	2014	2014
5°	2016	2000	2014
10°	2000	1994	2011
15°	1972	1978	2004
20°	1941	1959	1998
25°	1902	1936	1991
30°	1854	1913	1980
35°	1804	1885	1974
40°	1746	1863	1969
45°	1682	1840	1966
50°	1619	1819	1972
55°	1551	1805	1966
60°	1477	1779	1953
65°	1390	1774	1953
70°	1309	1758	1898
75°	1135	1719	1622
80°	919	1385	1080
85°	611	482	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.4
10°-20°	201.1	9.6
20°-30°	301.7	14.4
30°-40°	359.9	17.2
40°-50°	372.1	17.7
50°-60°	339.7	16.2
60°-70°	267.3	12.7
70°-80°	155.6	7.4
80°-90°	28.7	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°	573.6	27.4
0°-40°	933.5	44.5
0°-60°	1645.3	78.5
0°-90°	2097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	746	744	740	746	746	71
15°	708	709	710	720	720	200
25°	640	644	652	668	671	295
35°	549	556	574	596	601	343
45°	442	456	484	510	517	341
55°	331	348	385	413	419	296
65°	218	241	279	300	307	217
75°	109	135	165	162	156	116
85°	20	28	16	12	10	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.6	748.6	748.6	748.6	748.6
2.5°	749.6	747.6	744.4	749.6	748.6
5°	746.5	744.4	740.3	746.5	745.5
7.5°	740.3	738.2	736.1	742.4	741.3
10°	732.0	730.9	729.9	737.2	736.1
12.5°	721.6	721.6	720.5	728.8	728.8
15°	708.0	709.1	710.1	719.5	719.5
17.5°	695.6	694.5	697.6	708.0	709.1
20°	677.9	680.0	684.1	696.6	697.6
22.5°	660.2	662.3	669.6	682.1	685.2
25°	640.5	643.6	651.9	667.5	670.6
27.5°	619.7	623.8	635.3	651.9	655.0
30°	596.8	603.0	615.5	634.2	637.3
32.5°	573.9	580.2	595.8	614.5	618.6
35°	549.0	556.2	573.9	595.8	601.0
37.5°	523.0	532.3	553.1	575.0	581.2
40°	497.0	507.4	530.3	553.1	560.4
42.5°	471.0	481.4	506.3	532.3	539.6
45°	441.9	456.4	483.5	510.5	516.7
47.5°	413.8	429.4	459.6	486.6	494.9
50°	386.8	402.4	434.6	462.7	471.0
52.5°	358.7	375.3	409.6	438.8	446.0
55°	330.6	348.3	384.7	412.8	419.0
57.5°	302.6	321.3	358.7	385.7	393.0
60°	274.5	294.2	330.6	357.7	362.9
62.5°	246.4	267.2	304.6	328.5	333.7
65°	218.3	241.2	278.6	300.5	306.7
67.5°	191.3	214.2	250.6	271.4	276.6
70°	166.4	187.1	223.5	239.1	241.2
72.5°	135.2	161.2	196.5	204.8	199.6
75°	109.2	135.2	165.3	162.2	156.0
77.5°	83.2	109.2	128.9	118.5	110.2
80°	59.3	85.3	89.4	73.8	69.7
82.5°	38.5	59.3	49.9	38.5	31.2
85°	19.8	28.1	15.6	12.5	10.4
87.5°	6.2	4.2	2.1	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)