

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: P275619

Luminaire Tested: **14CZ2-20-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275619
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: 14CZ2-20-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2096.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

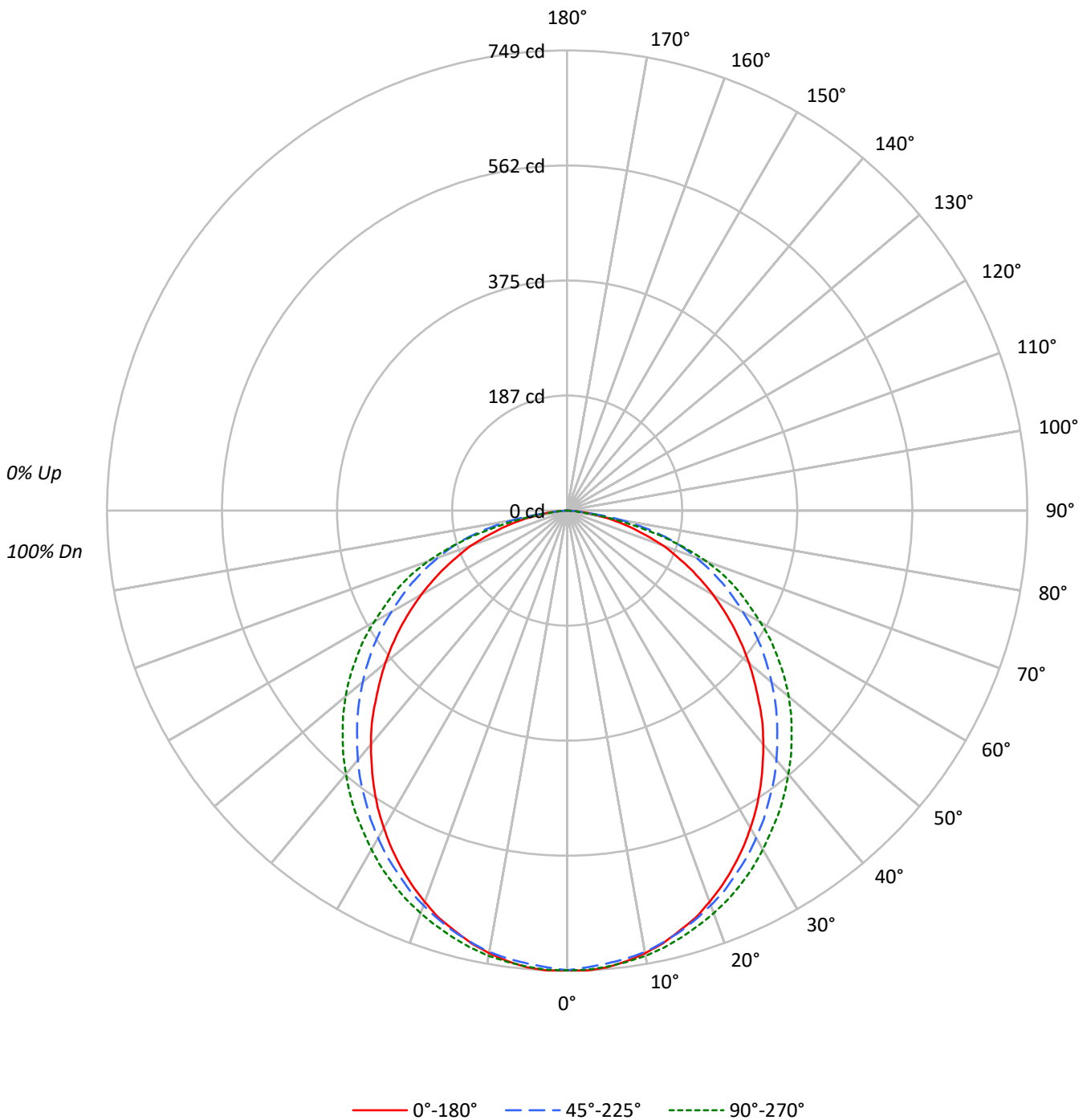
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2013	2013	2013
5°	2016	1999	2013
10°	1999	1993	2011
15°	1972	1977	2003
20°	1940	1958	1997
25°	1901	1935	1990
30°	1853	1912	1979
35°	1803	1884	1973
40°	1745	1862	1968
45°	1681	1839	1966
50°	1618	1819	1971
55°	1551	1804	1965
60°	1477	1779	1952
65°	1389	1773	1952
70°	1308	1758	1897
75°	1134	1718	1621
80°	917	1385	1079
85°	608	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°	301.6	14.4
30°-40°	359.8	17.2
40°-50°	371.9	17.7
50°-60°	339.6	16.2
60°-70°	267.2	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°	573.3	27.4
0°-40°	933.1	44.5
0°-60°	1644.6	78.5
0°-90°	2096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	746	744	740	746	745	71
15°	708	709	710	719	719	200
25°	640	643	652	667	670	295
35°	549	556	574	596	601	343
45°	442	456	483	510	516	341
55°	330	348	384	413	419	296
65°	218	241	278	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°	748.2	748.2	748.2	748.2	748.2
2.5°	749.3	747.2	744.1	749.3	748.2
5°	746.2	744.1	739.9	746.2	745.1
7.5°	739.9	737.8	735.8	742.0	741.0
10°	731.6	730.6	729.5	736.8	735.8
12.5°	721.2	721.2	720.2	728.5	728.5
15°	707.7	708.7	709.8	719.1	719.1
17.5°	695.2	694.2	697.3	707.7	708.7
20°	677.6	679.6	683.8	696.3	697.3
22.5°	659.9	662.0	669.3	681.7	684.8
25°	640.2	643.3	651.6	667.2	670.3
27.5°	619.4	623.5	635.0	651.6	654.7
30°	596.5	602.7	615.2	633.9	637.0
32.5°	573.6	579.9	595.5	614.2	618.3
35°	548.7	556.0	573.6	595.5	600.7
37.5°	522.7	532.1	552.9	574.7	580.9
40°	496.7	507.1	530.0	552.9	560.1
42.5°	470.8	481.2	506.1	532.1	539.4
45°	441.7	456.2	483.2	510.3	516.5
47.5°	413.6	429.2	459.3	486.4	494.7
50°	386.6	402.2	434.4	462.5	470.8
52.5°	358.5	375.2	409.5	438.6	445.8
55°	330.5	348.1	384.5	412.6	418.8
57.5°	302.4	321.1	358.5	385.6	392.8
60°	274.4	294.1	330.5	357.5	362.7
62.5°	246.3	267.1	304.5	328.4	333.6
65°	218.2	241.1	278.5	300.3	306.6
67.5°	191.2	214.1	250.5	271.2	276.4
70°	166.3	187.1	223.4	239.0	241.1
72.5°	135.1	161.1	196.4	204.7	199.5
75°	109.1	135.1	165.2	162.1	155.9
77.5°	83.1	109.1	128.9	118.5	110.2
80°	59.2	85.2	89.4	73.8	69.6
82.5°	38.5	59.2	49.9	38.5	31.2
85°	19.7	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)