

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: P275682

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275682
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-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2165.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

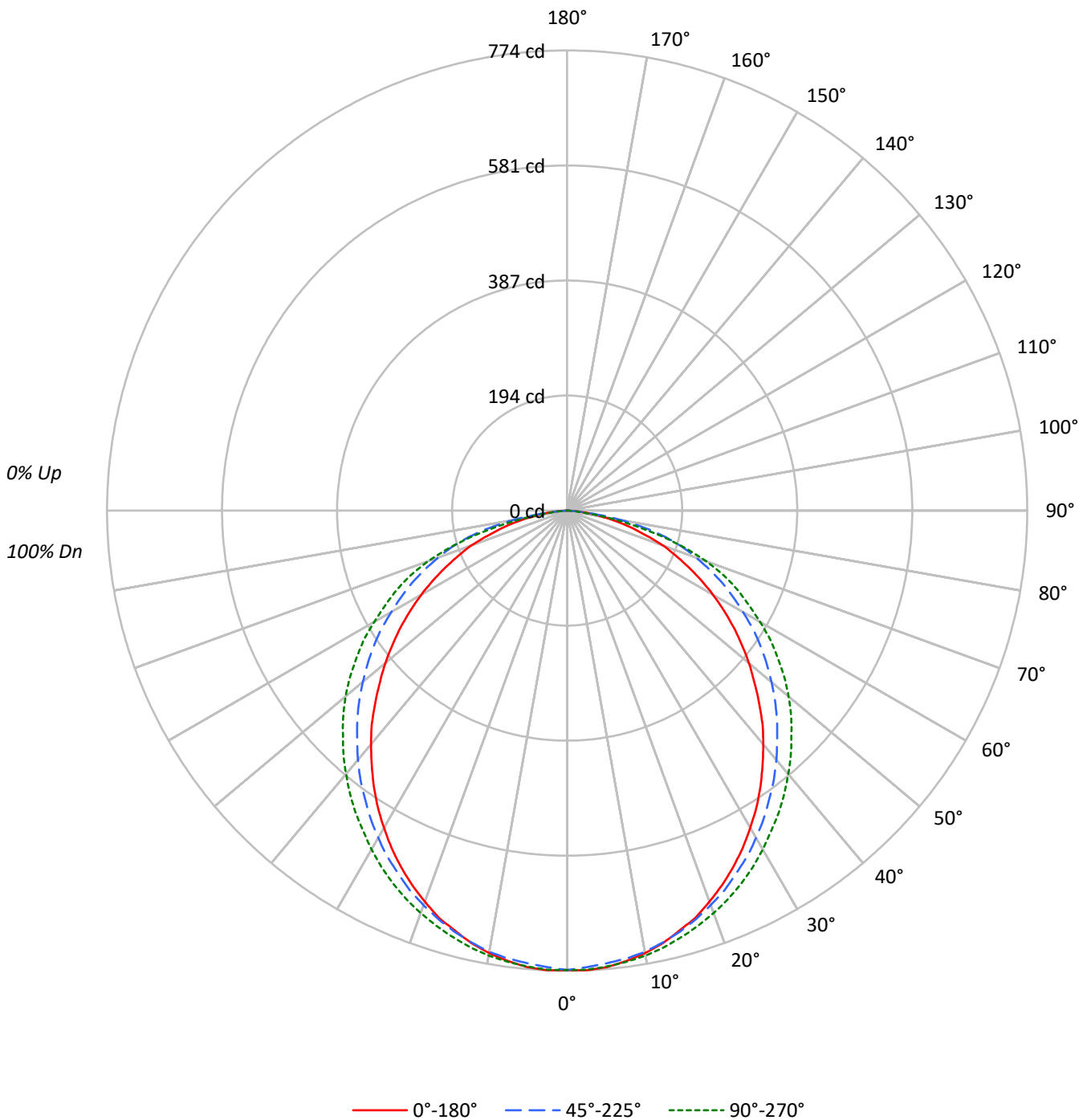
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2080	2080	2080
5°	2082	2065	2079
10°	2065	2059	2077
15°	2036	2043	2069
20°	2004	2023	2063
25°	1963	1998	2056
30°	1914	1975	2045
35°	1862	1946	2038
40°	1802	1923	2033
45°	1736	1899	2030
50°	1672	1878	2036
55°	1602	1863	2030
60°	1525	1837	2016
65°	1435	1832	2017
70°	1351	1816	1959
75°	1172	1775	1674
80°	948	1430	1114
85°	630	497	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.4
10°-20°	207.7	9.6
20°-30°	311.5	14.4
30°-40°	371.6	17.2
40°-50°	384.2	17.7
50°-60°	350.8	16.2
60°-70°	276.0	12.7
70°-80°	160.7	7.4
80°-90°	29.6	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°	592.2	27.4
0°-40°	963.8	44.5
0°-60°	1698.7	78.5
0°-90°	2165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	771	769	764	771	770	73
15°	731	732	733	743	743	206
25°	661	664	673	689	692	304
35°	567	574	592	615	620	354
45°	456	471	499	527	534	352
55°	341	360	397	426	433	305
65°	225	249	288	310	317	224
75°	113	140	171	168	161	120
85°	20	29	16	13	11	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.9	772.9	772.9	772.9	772.9
2.5°	773.9	771.8	768.6	773.9	772.9
5°	770.7	768.6	764.3	770.7	769.6
7.5°	764.3	762.1	760.0	766.4	765.4
10°	755.7	754.6	753.5	761.1	760.0
12.5°	745.0	745.0	743.9	752.5	752.5
15°	731.0	732.1	733.2	742.8	742.8
17.5°	718.1	717.1	720.3	731.0	732.1
20°	699.9	702.0	706.3	719.2	720.3
22.5°	681.6	683.8	691.3	704.2	707.4
25°	661.2	664.5	673.0	689.1	692.4
27.5°	639.8	644.1	655.9	673.0	676.3
30°	616.1	622.6	635.5	654.8	658.0
32.5°	592.5	599.0	615.1	634.4	638.7
35°	566.8	574.3	592.5	615.1	620.4
37.5°	539.9	549.6	571.1	593.6	600.0
40°	513.1	523.8	547.4	571.1	578.6
42.5°	486.3	497.0	522.8	549.6	557.1
45°	456.2	471.2	499.1	527.1	533.5
47.5°	427.2	443.3	474.5	502.4	511.0
50°	399.3	415.4	448.7	477.7	486.3
52.5°	370.3	387.5	422.9	453.0	460.5
55°	341.4	359.6	397.2	426.2	432.6
57.5°	312.4	331.7	370.3	398.2	405.8
60°	283.4	303.8	341.4	369.3	374.6
62.5°	254.4	275.9	314.5	339.2	344.6
65°	225.4	249.0	287.7	310.2	316.7
67.5°	197.5	221.1	258.7	280.2	285.5
70°	171.7	193.2	230.8	246.9	249.0
72.5°	139.5	166.4	202.9	211.5	206.1
75°	112.7	139.5	170.7	167.5	161.0
77.5°	85.9	112.7	133.1	122.4	113.8
80°	61.2	88.0	92.3	76.2	71.9
82.5°	39.7	61.2	51.5	39.7	32.2
85°	20.4	29.0	16.1	12.9	10.7
87.5°	6.4	4.3	2.1	2.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)