

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: P275626

Luminaire Tested: **14CZ2-25-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275626
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-L82765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2314.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

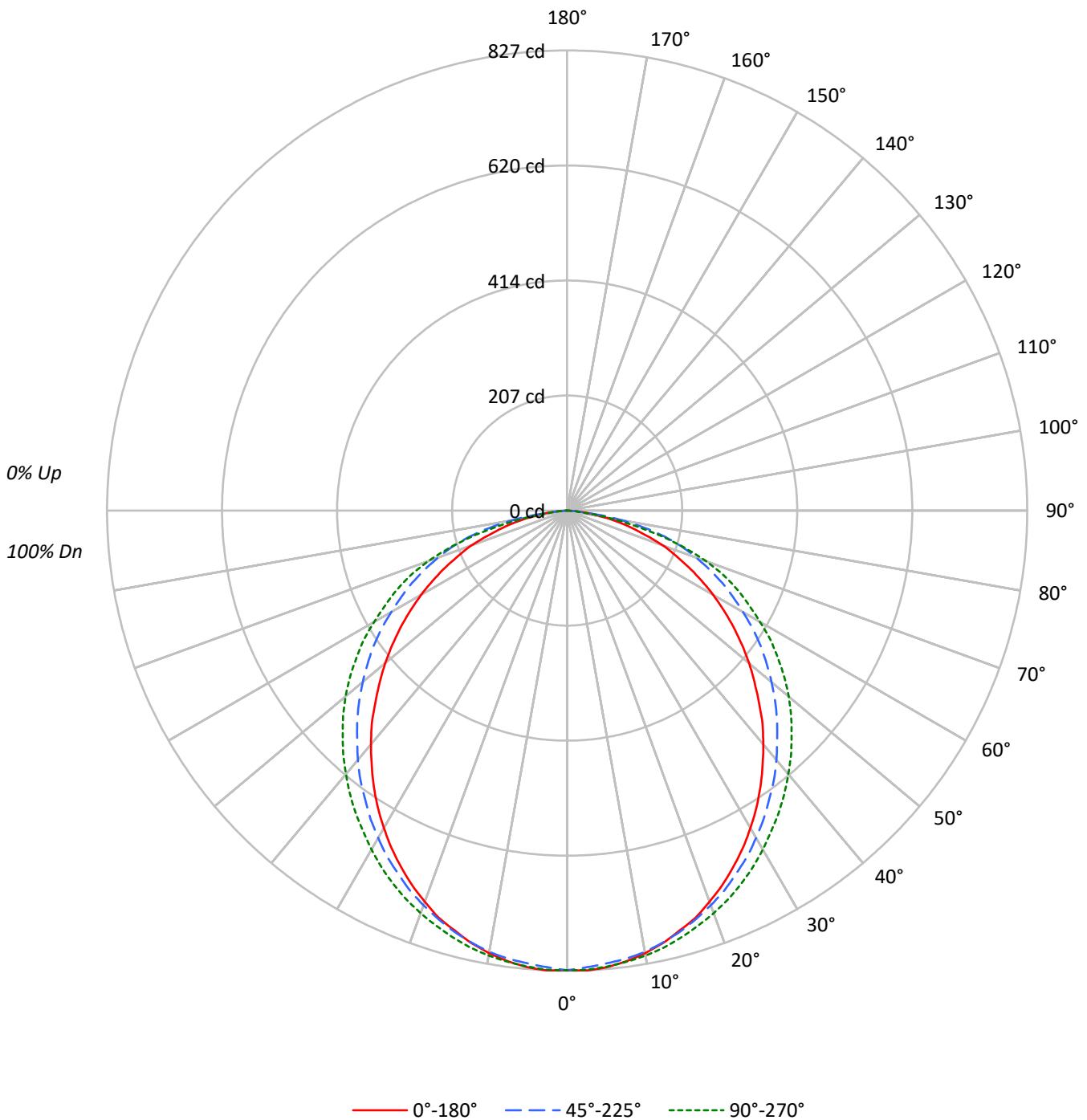
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2223	2223	2223
5°	2225	2207	2222
10°	2207	2201	2220
15°	2177	2183	2212
20°	2142	2162	2204
25°	2098	2136	2197
30°	2046	2110	2185
35°	1990	2080	2178
40°	1926	2055	2172
45°	1856	2030	2170
50°	1787	2008	2176
55°	1711	1992	2169
60°	1630	1963	2155
65°	1534	1958	2155
70°	1445	1941	2094
75°	1253	1896	1789
80°	1013	1530	1192
85°	673	531	355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.4
10°-20°	222.0	9.6
20°-30°	333.0	14.4
30°-40°	397.2	17.2
40°-50°	410.6	17.7
50°-60°	374.9	16.2
60°-70°	295.0	12.7
70°-80°	171.7	7.4
80°-90°	31.7	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°	632.9	27.4
0°-40°	1030.1	44.5
0°-60°	1815.6	78.5
0°-90°	2314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	824	822	817	824	823	78
15°	781	782	784	794	794	220
25°	707	710	719	737	740	325
35°	606	614	633	657	663	379
45°	488	504	534	563	570	377
55°	365	384	424	456	462	326
65°	241	266	308	332	338	239
75°	120	149	182	179	172	128
85°	22	31	17	14	12	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.1	826.1	826.1	826.1	826.1
2.5°	827.2	824.9	821.5	827.2	826.1
5°	823.8	821.5	816.9	823.8	822.6
7.5°	816.9	814.6	812.3	819.2	818.0
10°	807.7	806.6	805.4	813.4	812.3
12.5°	796.2	796.2	795.1	804.3	804.3
15°	781.3	782.5	783.6	793.9	793.9
17.5°	767.5	766.4	769.8	781.3	782.5
20°	748.0	750.3	754.9	768.7	769.8
22.5°	728.5	730.8	738.9	752.6	756.1
25°	706.7	710.2	719.4	736.6	740.0
27.5°	683.8	688.4	701.0	719.4	722.8
30°	658.6	665.4	679.2	699.9	703.3
32.5°	633.3	640.2	657.4	678.1	682.6
35°	605.8	613.8	633.3	657.4	663.1
37.5°	577.1	587.4	610.4	634.5	641.3
40°	548.4	559.9	585.1	610.4	618.4
42.5°	519.7	531.2	558.7	587.4	595.5
45°	487.6	503.7	533.5	563.3	570.2
47.5°	456.6	473.8	507.1	536.9	546.1
50°	426.8	444.0	479.6	510.6	519.7
52.5°	395.8	414.2	452.0	484.2	492.2
55°	364.8	384.3	424.5	455.5	462.4
57.5°	333.9	354.5	395.8	425.7	433.7
60°	302.9	324.7	364.8	394.7	400.4
62.5°	271.9	294.9	336.2	362.5	368.3
65°	240.9	266.2	307.5	331.6	338.5
67.5°	211.1	236.3	276.5	299.4	305.2
70°	183.6	206.5	246.7	263.9	266.2
72.5°	149.1	177.8	216.8	226.0	220.3
75°	120.5	149.1	182.4	179.0	172.1
77.5°	91.8	120.5	142.3	130.8	121.6
80°	65.4	94.1	98.7	81.5	76.9
82.5°	42.5	65.4	55.1	42.5	34.4
85°	21.8	31.0	17.2	13.8	11.5
87.5°	6.9	4.6	2.3	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)