

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: P275561

Luminaire Tested: **14CZ2-25-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275561
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-L83050-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: 2316.0 lumens
Efficiency: N/A
Efficacy: 127.1 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

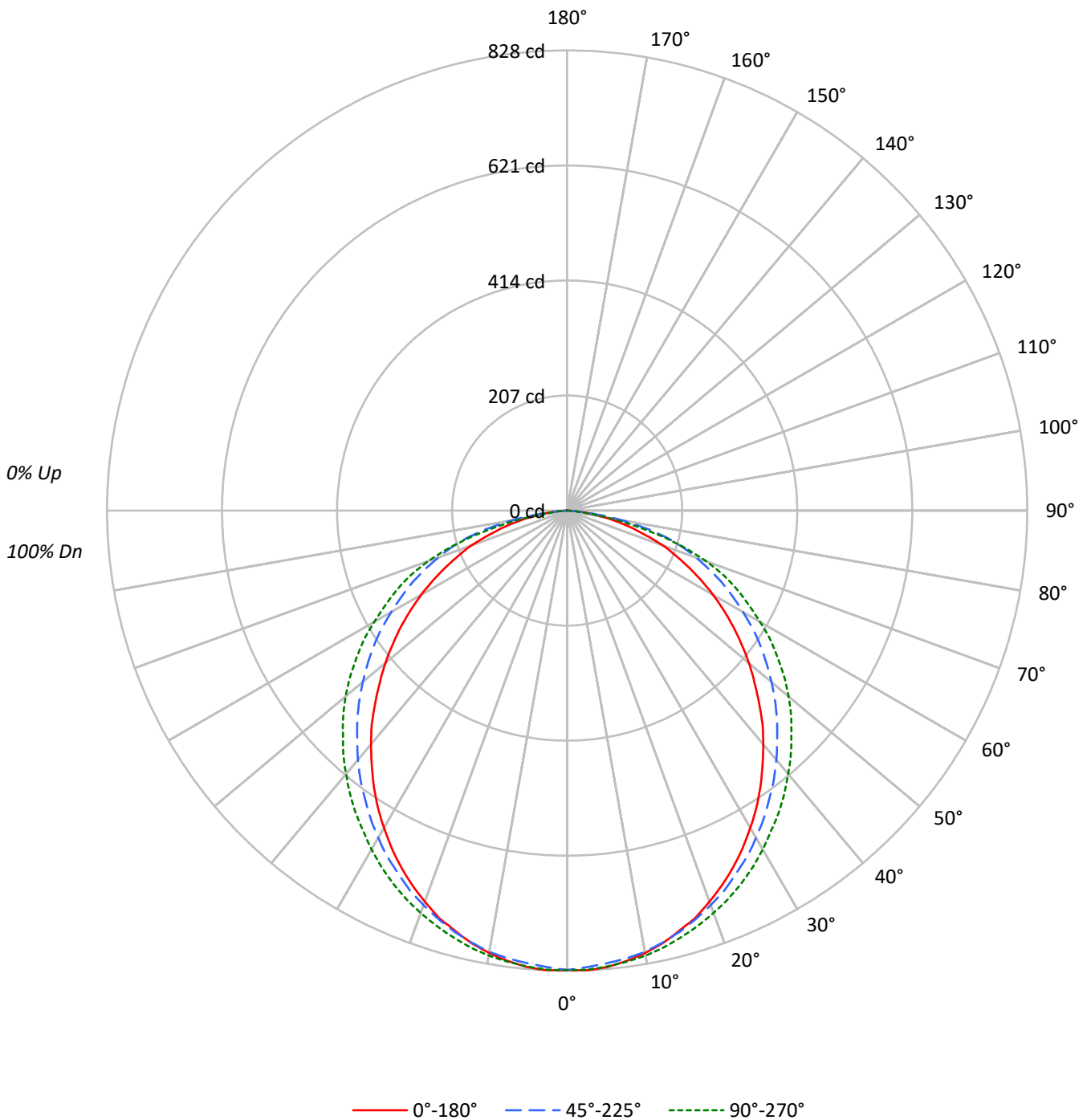
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2225	2225	2225
5°	2227	2209	2224
10°	2209	2203	2222
15°	2179	2185	2214
20°	2144	2164	2206
25°	2100	2138	2199
30°	2048	2112	2187
35°	1992	2082	2180
40°	1928	2057	2174
45°	1857	2032	2172
50°	1788	2009	2178
55°	1713	1993	2171
60°	1632	1965	2157
65°	1535	1959	2157
70°	1445	1943	2096
75°	1254	1899	1790
80°	1015	1531	1192
85°	673	531	355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.4
10°-20°	222.2	9.6
20°-30°	333.3	14.4
30°-40°	397.5	17.2
40°-50°	411.0	17.7
50°-60°	375.2	16.2
60°-70°	295.3	12.7
70°-80°	171.9	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°	633.5	27.4
0°-40°	1031.0	44.5
0°-60°	1817.2	78.5
0°-90°	2316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	824	822	818	824	823	78
15°	782	783	784	795	795	221
25°	707	711	720	737	741	326
35°	606	614	634	658	664	379
45°	488	504	534	564	571	377
55°	365	385	425	456	463	327
65°	241	266	308	332	339	239
75°	121	149	183	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°	826.8	826.8	826.8	826.8	826.8
2.5°	827.9	825.6	822.2	827.9	826.8
5°	824.5	822.2	817.6	824.5	823.3
7.5°	817.6	815.3	813.0	819.9	818.7
10°	808.4	807.3	806.1	814.1	813.0
12.5°	796.9	796.9	795.8	805.0	805.0
15°	782.0	783.1	784.3	794.6	794.6
17.5°	768.2	767.1	770.5	782.0	783.1
20°	748.7	751.0	755.6	769.4	770.5
22.5°	729.2	731.5	739.5	753.3	756.7
25°	707.4	710.8	720.0	737.2	740.7
27.5°	684.4	689.0	701.6	720.0	723.4
30°	659.1	666.0	679.8	700.5	703.9
32.5°	633.9	640.7	658.0	678.6	683.2
35°	606.3	614.3	633.9	658.0	663.7
37.5°	577.6	587.9	610.9	635.0	641.9
40°	548.9	560.4	585.6	610.9	618.9
42.5°	520.2	531.7	559.2	587.9	596.0
45°	488.0	504.1	534.0	563.8	570.7
47.5°	457.0	474.2	507.5	537.4	546.6
50°	427.2	444.4	480.0	511.0	520.2
52.5°	396.2	414.5	452.4	484.6	492.6
55°	365.2	384.7	424.9	455.9	462.8
57.5°	334.2	354.8	396.2	426.0	434.1
60°	303.2	325.0	365.2	395.0	400.8
62.5°	272.1	295.1	336.5	362.9	368.6
65°	241.1	266.4	307.7	331.9	338.7
67.5°	211.3	236.5	276.7	299.7	305.4
70°	183.7	206.7	246.9	264.1	266.4
72.5°	149.3	178.0	217.0	226.2	220.5
75°	120.6	149.3	182.6	179.1	172.2
77.5°	91.9	120.6	142.4	130.9	121.7
80°	65.5	94.2	98.8	81.5	76.9
82.5°	42.5	65.5	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)