

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: P275627

Luminaire Tested: **14CZ2-25-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275627
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-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2394.0 lumens
Efficiency: N/A
Efficacy: 130.7 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

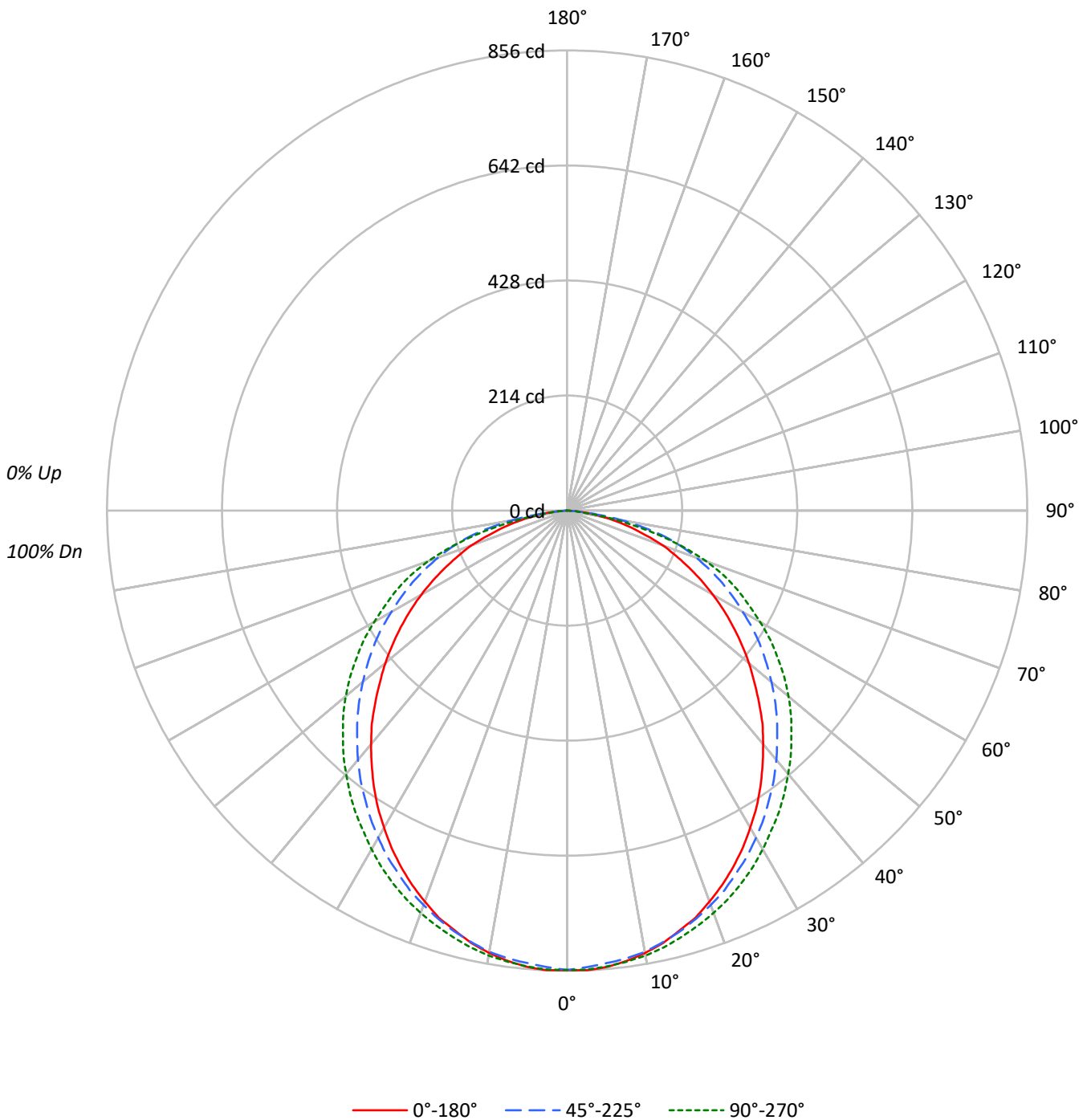
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2300	2300	2300
5°	2302	2283	2299
10°	2283	2277	2296
15°	2252	2259	2288
20°	2216	2237	2281
25°	2171	2210	2273
30°	2117	2183	2261
35°	2059	2152	2254
40°	1993	2127	2248
45°	1920	2100	2245
50°	1849	2077	2251
55°	1771	2061	2244
60°	1687	2032	2230
65°	1587	2025	2230
70°	1494	2008	2167
75°	1295	1962	1851
80°	1049	1582	1232
85°	698	550	367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.4
10°-20°	229.6	9.6
20°-30°	344.5	14.4
30°-40°	410.9	17.2
40°-50°	424.8	17.7
50°-60°	387.9	16.2
60°-70°	305.2	12.7
70°-80°	177.7	7.4
80°-90°	32.7	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°	654.8	27.4
0°-40°	1065.7	44.5
0°-60°	1878.4	78.5
0°-90°	2394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	852	850	845	852	851	81
15°	808	810	811	821	821	228
25°	731	735	744	762	766	337
35°	627	635	655	680	686	392
45°	504	521	552	583	590	390
55°	378	398	439	471	478	338
65°	249	275	318	343	350	248
75°	125	154	189	185	178	132
85°	23	32	18	14	12	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.6	854.6	854.6	854.6	854.6
2.5°	855.8	853.4	849.9	855.8	854.6
5°	852.2	849.9	845.1	852.2	851.1
7.5°	845.1	842.7	840.4	847.5	846.3
10°	835.6	834.4	833.3	841.6	840.4
12.5°	823.8	823.8	822.6	832.1	832.1
15°	808.3	809.5	810.7	821.4	821.4
17.5°	794.1	792.9	796.5	808.3	809.5
20°	773.9	776.3	781.0	795.3	796.5
22.5°	753.7	756.1	764.4	778.7	782.2
25°	731.2	734.7	744.2	762.0	765.6
27.5°	707.4	712.2	725.2	744.2	747.8
30°	681.3	688.4	702.7	724.1	727.6
32.5°	655.2	662.3	680.1	701.5	706.2
35°	626.7	635.0	655.2	680.1	686.1
37.5°	597.0	607.7	631.5	656.4	663.5
40°	567.4	579.2	605.4	631.5	639.8
42.5°	537.7	549.6	578.1	607.7	616.0
45°	504.5	521.1	551.9	582.8	589.9
47.5°	472.4	490.2	524.6	555.5	565.0
50°	441.6	459.4	496.2	528.2	537.7
52.5°	409.5	428.5	467.7	500.9	509.2
55°	377.5	397.6	439.2	471.2	478.3
57.5°	345.4	366.8	409.5	440.4	448.7
60°	313.4	335.9	377.5	408.3	414.3
62.5°	281.3	305.1	347.8	375.1	381.0
65°	249.3	275.4	318.1	343.0	350.2
67.5°	218.4	244.5	286.1	309.8	315.7
70°	189.9	213.7	255.2	273.0	275.4
72.5°	154.3	184.0	224.3	233.8	227.9
75°	124.6	154.3	188.7	185.2	178.0
77.5°	95.0	124.6	147.2	135.3	125.8
80°	67.7	97.3	102.1	84.3	79.5
82.5°	43.9	67.7	57.0	43.9	35.6
85°	22.6	32.0	17.8	14.2	11.9
87.5°	7.1	4.7	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)