

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: P275518

Luminaire Tested: **14CZ2-25-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2287.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

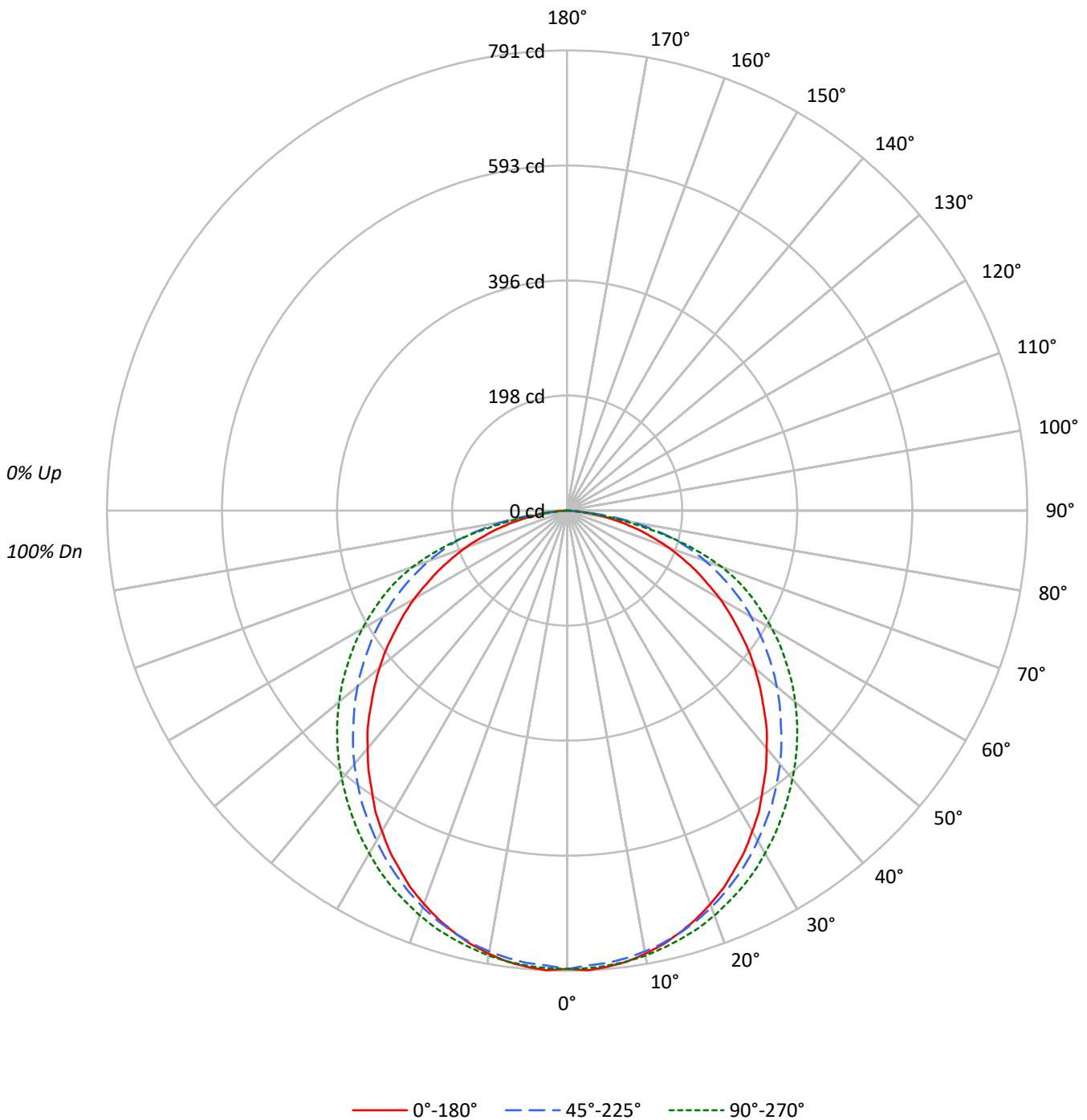
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2120	2120	2120
5°	2127	2109	2121
10°	2114	2103	2122
15°	2091	2093	2121
20°	2060	2078	2121
25°	2021	2058	2118
30°	1977	2036	2114
35°	1925	2019	2113
40°	1874	1999	2116
45°	1816	1977	2127
50°	1763	1968	2141
55°	1696	1962	2160
60°	1636	1965	2190
65°	1552	1971	2224
70°	1456	1986	2223
75°	1320	2005	2010
80°	1083	1731	1430
85°	803	818	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	3.3
10°-20°	213.0	9.3
20°-30°	320.8	14.0
30°-40°	385.0	16.8
40°-50°	401.3	17.5
50°-60°	371.5	16.2
60°-70°	300.1	13.1
70°-80°	183.0	8.0
80°-90°	37.8	1.7
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°	608.4	26.6
0°-40°	993.3	43.4
0°-60°	1766.1	77.2
0°-90°	2287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	787	785	781	786	785	75
15°	751	751	751	761	761	212
25°	681	685	693	710	713	314
35°	586	595	614	637	643	367
45°	477	492	520	549	559	369
55°	362	380	418	451	460	324
65°	244	268	310	341	349	241
75°	127	155	193	196	193	133
85°	26	39	26	15	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	787.9	787.9	787.9	787.9	787.9
2.5°	790.9	788.4	782.8	788.4	787.4
5°	787.4	785.3	780.7	786.3	785.3
7.5°	782.3	780.2	776.2	782.8	781.8
10°	773.6	772.6	769.5	777.2	776.7
12.5°	763.4	762.9	761.4	770.0	769.5
15°	750.7	751.2	751.2	761.4	761.4
17.5°	736.4	737.4	739.4	750.7	752.2
20°	719.5	721.6	725.7	738.4	740.5
22.5°	702.2	703.7	709.9	725.2	727.2
25°	680.8	684.9	693.0	710.4	713.4
27.5°	660.4	664.0	675.2	693.0	698.1
30°	636.4	642.0	655.3	674.7	680.3
32.5°	613.5	619.6	634.9	657.3	662.4
35°	585.9	595.1	614.5	636.9	643.1
37.5°	560.9	569.6	591.5	616.0	623.2
40°	533.4	544.1	569.1	595.1	602.3
42.5°	507.9	518.1	545.1	571.7	581.3
45°	477.3	491.6	519.6	548.7	558.9
47.5°	449.3	463.5	495.7	526.8	536.0
50°	421.2	436.5	470.2	502.3	511.5
52.5°	392.2	408.5	444.7	476.8	487.5
55°	361.6	380.4	418.2	450.8	460.5
57.5°	332.5	351.9	392.2	425.3	435.0
60°	303.9	323.8	365.1	396.7	406.9
62.5°	272.3	295.8	338.6	369.7	377.4
65°	243.8	267.7	309.5	340.6	349.3
67.5°	213.7	239.7	281.5	310.1	318.2
70°	185.1	212.1	252.4	278.9	282.5
72.5°	154.5	182.1	222.8	239.7	239.7
75°	127.0	155.0	192.8	195.8	193.3
77.5°	96.9	128.0	152.5	146.4	140.2
80°	69.9	100.5	111.7	100.5	92.3
82.5°	46.9	72.9	67.3	53.5	47.4
85°	26.0	38.8	26.5	14.8	10.7
87.5°	9.7	8.7	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)