

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: P258709

Luminaire Tested: **14CZ-LD5-25-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2371.2 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

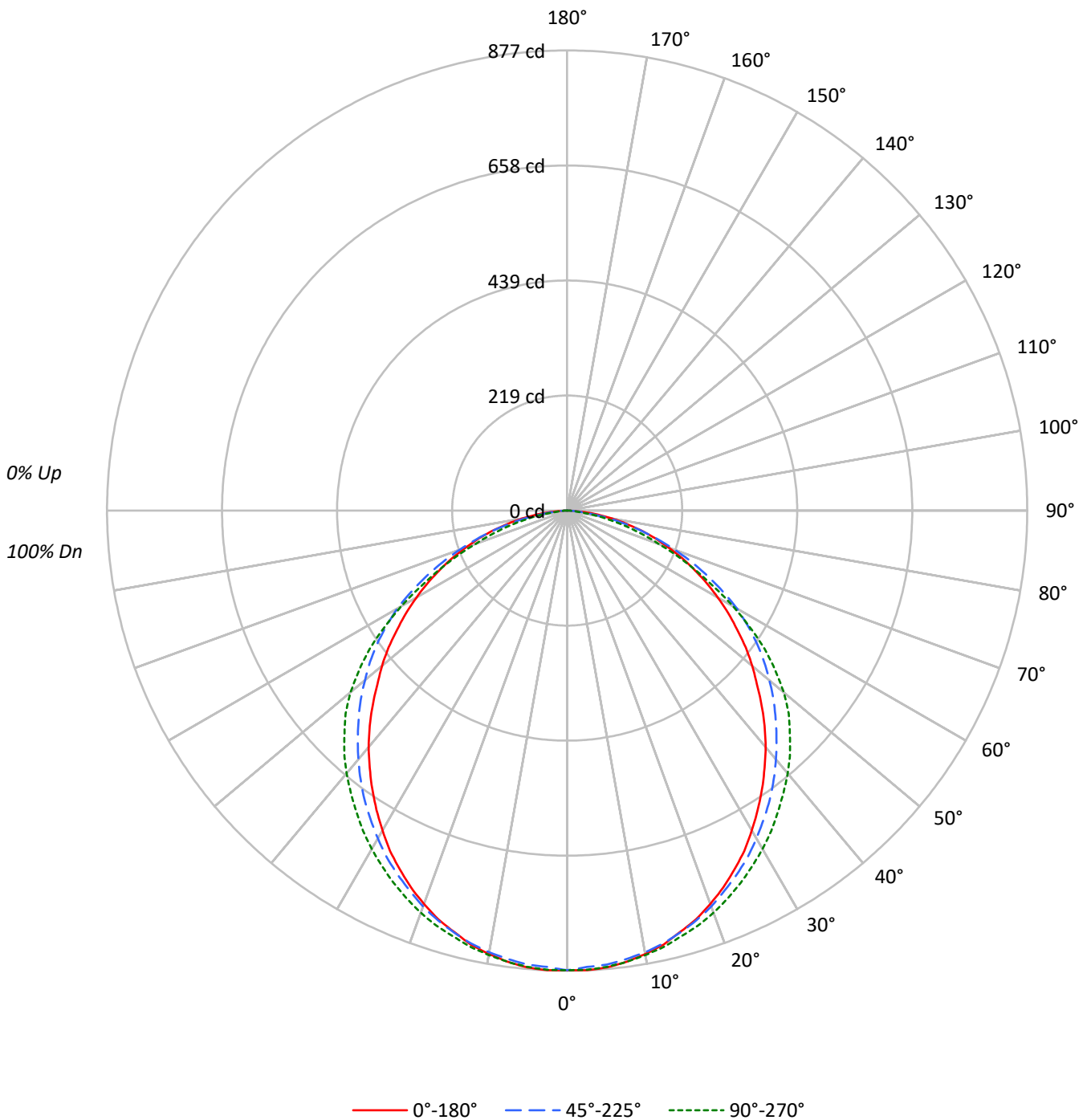
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2357	2357	2357
5°	2360	2346	2358
10°	2344	2336	2350
15°	2316	2320	2340
20°	2284	2300	2336
25°	2240	2271	2325
30°	2187	2243	2315
35°	2128	2211	2301
40°	2067	2175	2297
45°	1995	2139	2284
50°	1929	2105	2256
55°	1854	2072	2156
60°	1786	2013	1968
65°	1709	1883	1729
70°	1613	1713	1463
75°	1506	1483	1208
80°	1327	1147	885
85°	1044	556	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	3.5
10°-20°	235.8	9.9
20°-30°	353.9	14.9
30°-40°	421.9	17.8
40°-50°	434.5	18.3
50°-60°	387.3	16.3
60°-70°	279.0	11.8
70°-80°	145.9	6.2
80°-90°	30.2	1.3
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°	672.4	28.4
0°-40°	1094.3	46.1
0°-60°	1916.0	80.8
0°-90°	2371.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2371.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	874	872	868	874	873	83
15°	832	833	833	841	840	235
25°	754	759	765	780	783	348
35°	648	656	673	695	700	405
45°	524	536	562	594	600	404
55°	395	408	442	462	460	354
65°	268	278	296	282	272	266
75°	145	152	143	124	116	153
85°	34	30	18	16	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.9	875.9	875.9	875.9	875.9
2.5°	877.0	874.9	870.6	875.9	875.9
5°	873.8	871.7	868.5	873.8	872.8
7.5°	867.5	865.4	862.2	868.5	867.5
10°	858.0	856.9	854.8	861.1	860.1
12.5°	847.4	846.3	845.3	851.6	851.6
15°	831.5	832.6	832.6	841.1	840.0
17.5°	816.8	817.8	818.9	829.4	829.4
20°	797.7	798.8	803.0	814.6	815.7
22.5°	777.7	778.7	784.0	797.7	799.8
25°	754.4	758.6	765.0	779.8	782.9
27.5°	731.2	734.3	744.9	761.8	763.9
30°	703.7	710.0	721.7	740.7	744.9
32.5°	676.2	683.6	697.4	718.5	723.8
35°	647.7	656.1	673.1	695.2	700.5
37.5°	618.1	625.5	646.6	669.9	677.3
40°	588.5	595.9	619.2	645.6	654.0
42.5°	556.8	567.4	590.6	620.2	628.7
45°	524.1	535.7	562.1	593.8	600.1
47.5°	490.3	502.9	533.6	565.3	572.7
50°	460.7	472.3	502.9	533.6	538.9
52.5°	429.0	439.5	473.4	498.7	499.8
55°	395.2	407.8	441.7	461.7	459.6
57.5°	364.5	375.1	407.8	418.4	412.1
60°	331.8	341.3	374.0	375.1	365.6
62.5°	300.1	309.6	334.9	327.5	315.9
65°	268.4	277.9	295.8	282.1	271.5
67.5°	237.7	246.2	256.8	238.8	228.2
70°	205.0	216.6	217.7	196.5	186.0
72.5°	176.5	182.8	180.7	160.6	151.1
75°	144.8	152.2	142.6	123.6	116.2
77.5°	115.2	120.5	107.8	89.8	84.5
80°	85.6	88.8	74.0	60.2	57.1
82.5°	58.1	58.1	42.3	32.8	29.6
85°	33.8	29.6	18.0	15.8	15.8
87.5°	11.6	7.4	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)