

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: P259122

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-SQP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1927.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

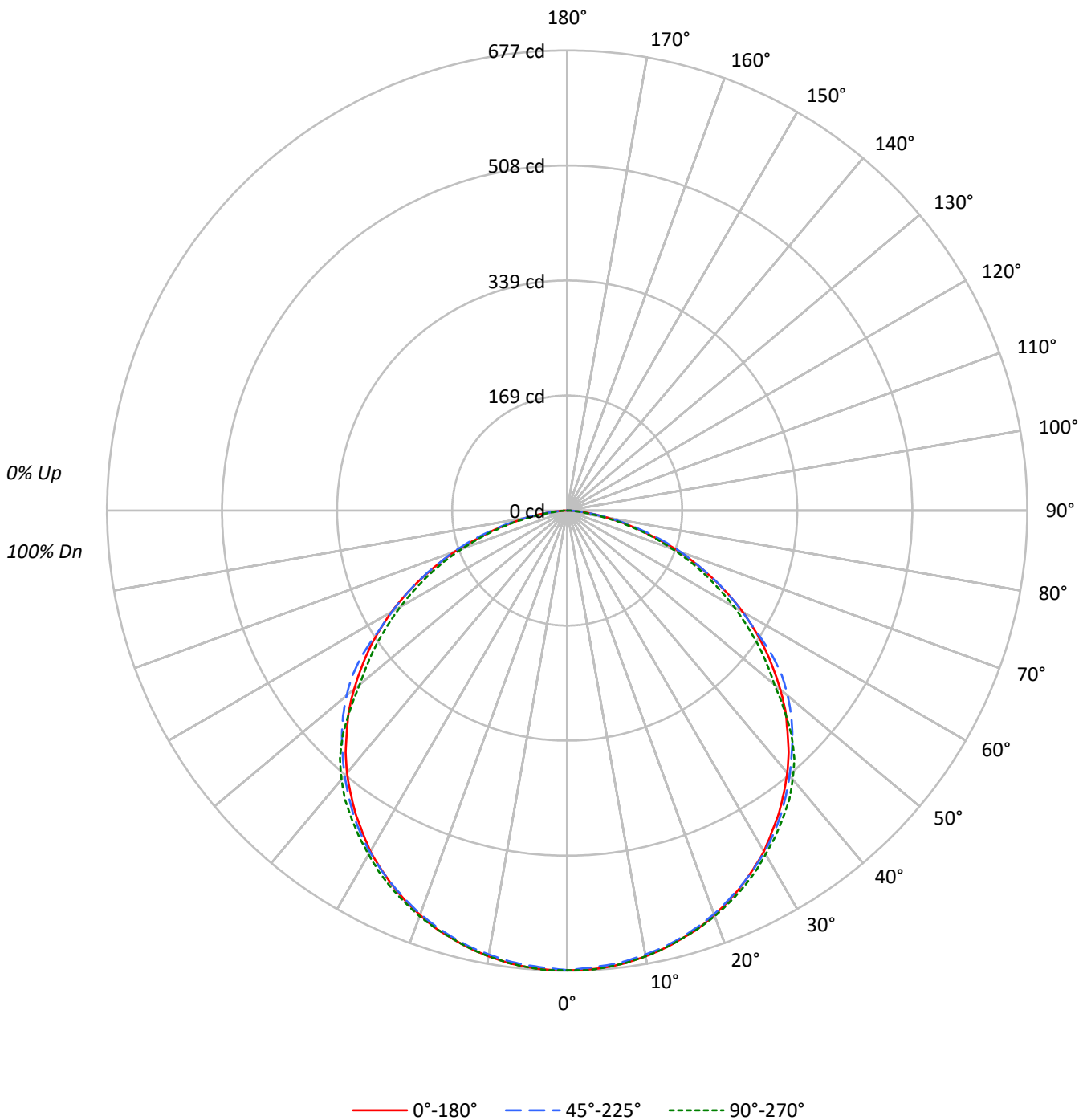
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1820	1820	1820
5°	1821	1814	1821
10°	1819	1812	1819
15°	1817	1811	1817
20°	1813	1809	1819
25°	1806	1804	1818
30°	1799	1803	1815
35°	1784	1799	1816
40°	1770	1788	1814
45°	1744	1784	1776
50°	1714	1773	1667
55°	1669	1718	1605
60°	1605	1602	1528
65°	1505	1513	1429
70°	1382	1397	1294
75°	1160	1214	1106
80°	921	941	779
85°	605	525	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.3
10°-20°	184.1	9.6
20°-30°	281.1	14.6
30°-40°	342.9	17.8
40°-50°	358.6	18.6
50°-60°	317.5	16.5
60°-70°	233.8	12.1
70°-80°	121.0	6.3
80°-90°	24.1	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°	529.1	27.5
0°-40°	872.1	45.3
0°-60°	1548.1	80.3
0°-90°	1927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	674	674	672	674	674	64
15°	652	652	650	653	652	184
25°	608	608	608	612	612	280
35°	543	544	548	553	553	340
45°	458	462	469	473	467	354
55°	356	363	366	347	342	317
65°	236	251	238	228	224	234
75°	112	119	117	110	106	119
85°	20	21	17	15	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.2	676.2	676.2	676.2	676.2
2.5°	676.2	676.2	673.6	676.2	676.9
5°	674.3	674.3	671.6	674.3	674.3
7.5°	671.0	670.3	668.4	671.0	671.0
10°	665.8	665.8	663.2	666.4	665.8
12.5°	659.9	659.2	657.9	660.6	659.9
15°	652.1	652.1	650.1	652.7	652.1
17.5°	644.2	643.6	641.6	644.2	644.2
20°	633.1	632.5	631.8	634.4	635.1
22.5°	621.4	620.7	620.1	624.0	624.0
25°	608.3	608.3	607.7	611.6	612.3
27.5°	594.0	594.0	594.6	599.8	599.2
30°	579.0	579.0	580.3	584.2	584.2
32.5°	560.7	562.0	564.6	569.2	569.2
35°	543.1	544.4	547.6	552.9	552.9
37.5°	523.5	525.4	528.7	535.2	536.5
40°	503.9	505.2	509.1	516.3	516.3
42.5°	482.4	483.7	488.9	496.1	494.8
45°	458.2	462.1	468.7	472.6	466.7
47.5°	435.4	438.0	447.1	442.5	432.8
50°	409.3	414.5	423.6	407.3	398.2
52.5°	382.5	388.4	398.2	375.3	370.1
55°	355.7	362.9	366.2	347.2	342.0
57.5°	327.0	334.8	328.3	317.2	312.0
60°	298.3	307.4	297.6	287.2	283.9
62.5°	268.3	278.7	267.6	258.5	253.9
65°	236.3	250.6	237.6	228.5	224.5
67.5°	205.0	220.0	206.3	198.4	195.8
70°	175.6	184.1	177.5	169.7	164.5
72.5°	140.3	148.8	147.5	139.0	135.8
75°	111.6	119.4	116.8	109.7	106.4
77.5°	82.9	91.4	88.8	80.3	79.0
80°	59.4	65.3	60.7	52.9	50.3
82.5°	37.2	41.8	35.9	30.0	28.7
85°	19.6	20.9	17.0	15.0	14.4
87.5°	6.5	7.2	7.2	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)