

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: P258823

Luminaire Tested: **14CZ-LD5-20-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258823
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-LD5-20-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1988.0 lumens
Efficiency: N/A
Efficacy: 126.5 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

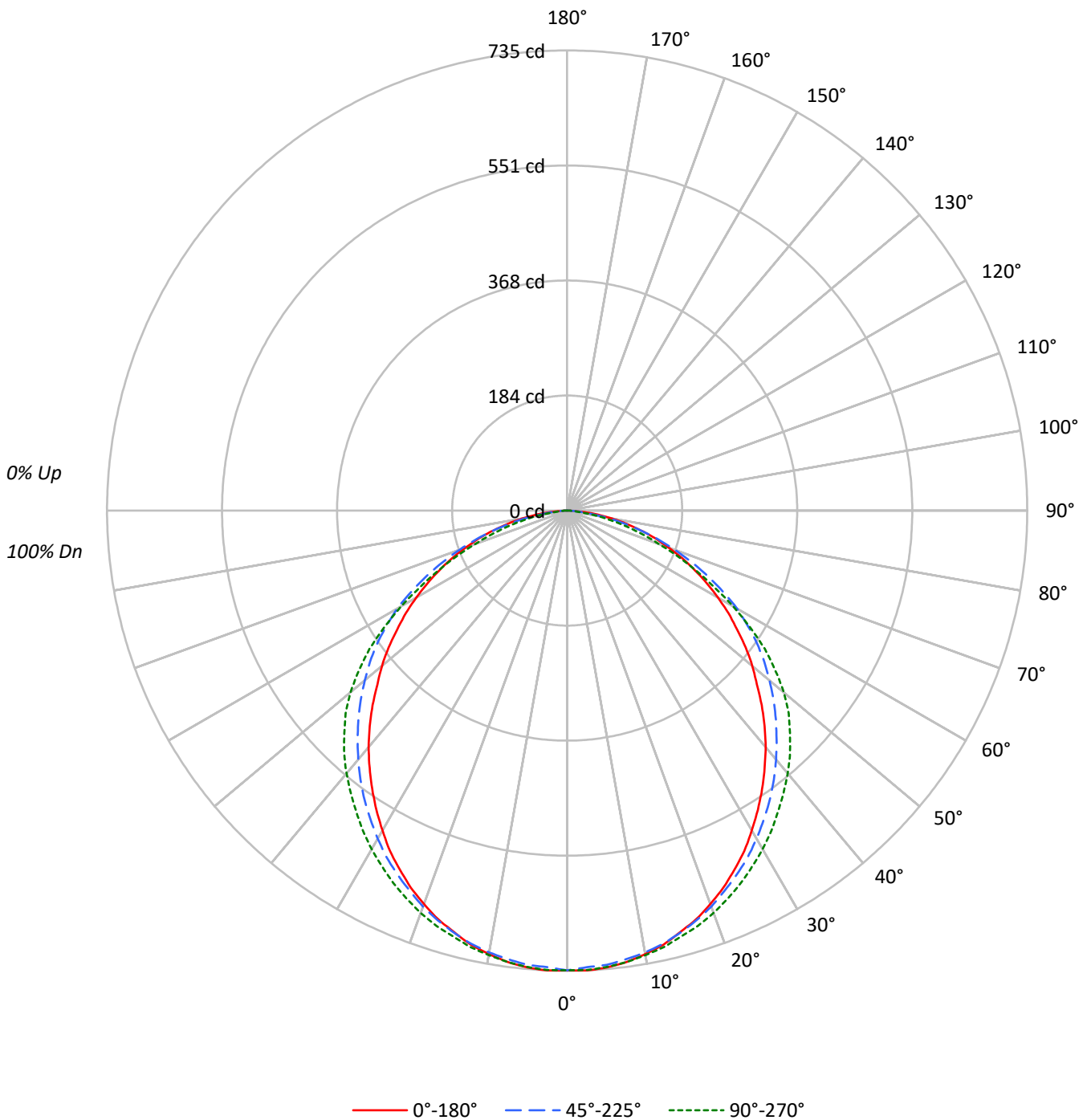
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1976	1976	1976
5°	1979	1967	1977
10°	1965	1958	1970
15°	1942	1945	1962
20°	1915	1928	1958
25°	1878	1904	1949
30°	1833	1880	1940
35°	1784	1854	1929
40°	1733	1824	1926
45°	1672	1794	1915
50°	1617	1765	1891
55°	1554	1737	1808
60°	1497	1688	1650
65°	1433	1579	1450
70°	1352	1436	1227
75°	1262	1243	1013
80°	1113	961	741
85°	874	466	411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	3.5
10°-20°	197.7	9.9
20°-30°	296.7	14.9
30°-40°	353.7	17.8
40°-50°	364.3	18.3
50°-60°	324.7	16.3
60°-70°	233.9	11.8
70°-80°	122.4	6.2
80°-90°	25.3	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°	563.7	28.4
0°-40°	917.4	46.1
0°-60°	1606.4	80.8
0°-90°	1988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	733	731	728	733	732	70
15°	697	698	698	705	704	197
25°	632	636	641	654	656	291
35°	543	550	564	583	587	340
45°	439	449	471	498	503	339
55°	331	342	370	387	385	297
65°	225	233	248	236	228	223
75°	121	128	120	104	97	129
85°	28	25	15	13	13	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.4	734.4	734.4	734.4	734.4
2.5°	735.3	733.5	729.9	734.4	734.4
5°	732.6	730.8	728.2	732.6	731.7
7.5°	727.3	725.5	722.9	728.2	727.3
10°	719.3	718.4	716.7	722.0	721.1
12.5°	710.4	709.6	708.7	714.0	714.0
15°	697.2	698.0	698.0	705.1	704.2
17.5°	684.8	685.6	686.5	695.4	695.4
20°	668.8	669.7	673.2	683.0	683.9
22.5°	652.0	652.9	657.3	668.8	670.6
25°	632.5	636.0	641.4	653.8	656.4
27.5°	613.0	615.7	624.5	638.7	640.5
30°	590.0	595.3	605.0	621.0	624.5
32.5°	566.9	573.1	584.7	602.4	606.8
35°	543.0	550.1	564.3	582.9	587.3
37.5°	518.2	524.4	542.1	561.6	567.8
40°	493.4	499.6	519.1	541.3	548.3
42.5°	466.8	475.7	495.2	520.0	527.1
45°	439.4	449.1	471.3	497.8	503.2
47.5°	411.0	421.7	447.4	473.9	480.1
50°	386.2	396.0	421.7	447.4	451.8
52.5°	359.7	368.5	396.9	418.1	419.0
55°	331.3	341.9	370.3	387.1	385.3
57.5°	305.6	314.5	341.9	350.8	345.5
60°	278.2	286.1	313.6	314.5	306.5
62.5°	251.6	259.6	280.8	274.6	264.9
65°	225.0	233.0	248.0	236.5	227.7
67.5°	199.3	206.4	215.3	200.2	191.3
70°	171.9	181.6	182.5	164.8	155.9
72.5°	147.9	153.3	151.5	134.6	126.7
75°	121.4	127.6	119.6	103.6	97.4
77.5°	96.6	101.0	90.4	75.3	70.9
80°	71.8	74.4	62.0	50.5	47.8
82.5°	48.7	48.7	35.4	27.5	24.8
85°	28.3	24.8	15.1	13.3	13.3
87.5°	9.7	6.2	6.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)