

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: P258829

Luminaire Tested: **14CZ-LD5-25-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258829
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-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2147.0 lumens
Efficiency: N/A
Efficacy: 117.8 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

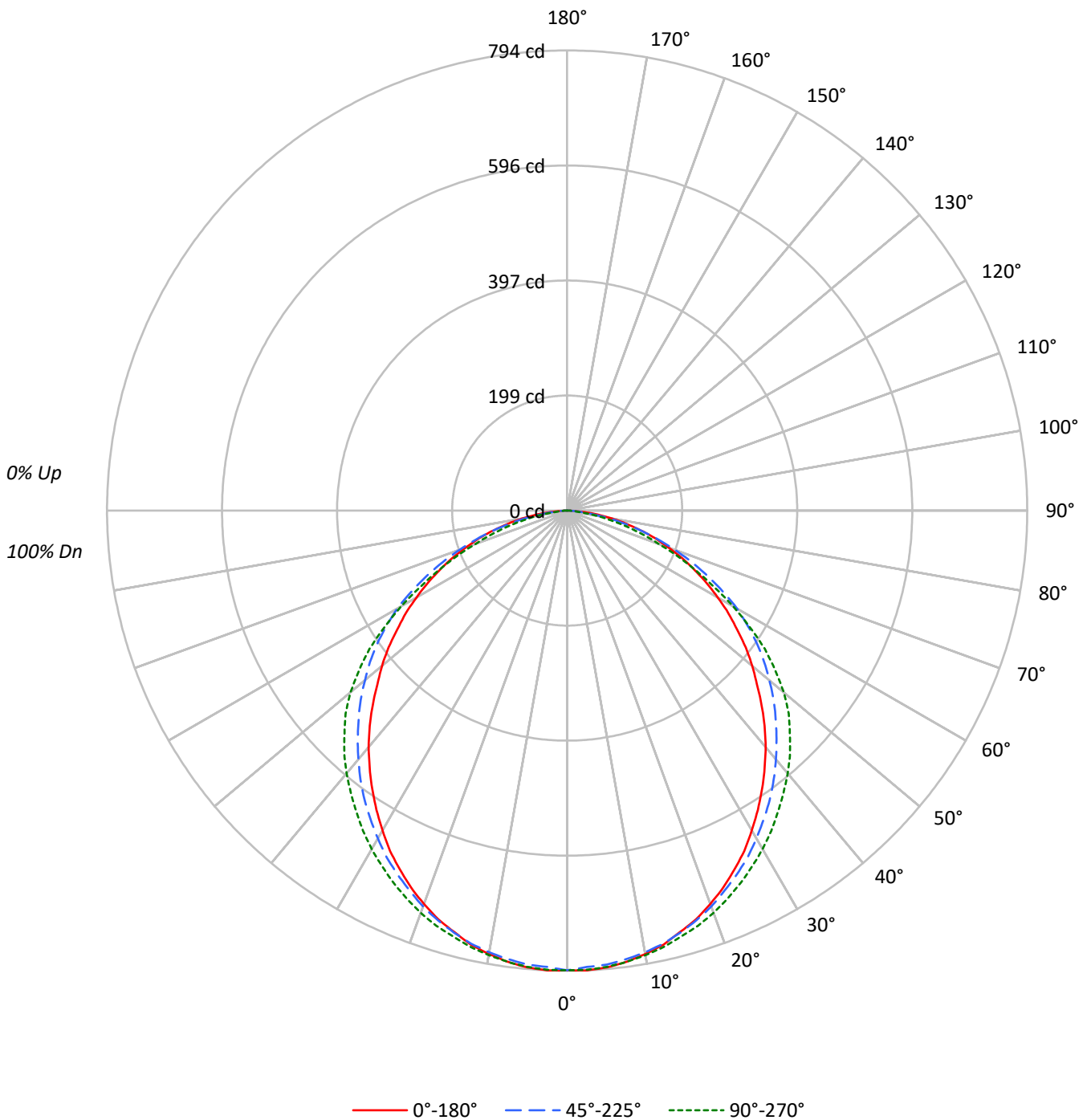
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2134	2134	2134
5°	2137	2124	2135
10°	2123	2115	2128
15°	2098	2100	2119
20°	2068	2082	2115
25°	2028	2056	2105
30°	1980	2030	2096
35°	1927	2002	2084
40°	1872	1969	2080
45°	1806	1937	2068
50°	1746	1906	2043
55°	1679	1876	1953
60°	1617	1823	1781
65°	1547	1706	1566
70°	1460	1551	1325
75°	1363	1343	1094
80°	1201	1038	801
85°	945	503	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.5
10°-20°	213.5	9.9
20°-30°	320.4	14.9
30°-40°	382.0	17.8
40°-50°	393.4	18.3
50°-60°	350.6	16.3
60°-70°	252.6	11.8
70°-80°	132.1	6.2
80°-90°	27.3	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°	608.8	28.4
0°-40°	990.8	46.1
0°-60°	1734.9	80.8
0°-90°	2147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	791	789	786	791	790	75
15°	753	754	754	762	761	212
25°	683	687	693	706	709	315
35°	586	594	609	630	634	367
45°	474	485	509	538	543	366
55°	358	369	400	418	416	321
65°	243	252	268	255	246	241
75°	131	138	129	112	105	139
85°	31	27	16	14	14	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	793.1	793.1	793.1	793.1	793.1
2.5°	794.1	792.1	788.3	793.1	793.1
5°	791.2	789.3	786.4	791.2	790.2
7.5°	785.4	783.5	780.7	786.4	785.4
10°	776.8	775.9	774.0	779.7	778.8
12.5°	767.3	766.3	765.4	771.1	771.1
15°	752.9	753.9	753.9	761.5	760.6
17.5°	739.5	740.5	741.4	751.0	751.0
20°	722.3	723.3	727.1	737.6	738.6
22.5°	704.1	705.1	709.9	722.3	724.2
25°	683.1	686.9	692.6	706.0	708.9
27.5°	662.0	664.9	674.5	689.8	691.7
30°	637.2	642.9	653.4	670.6	674.5
32.5°	612.3	619.0	631.4	650.6	655.3
35°	586.5	594.1	609.4	629.5	634.3
37.5°	559.7	566.4	585.5	606.5	613.2
40°	532.9	539.6	560.6	584.5	592.2
42.5°	504.2	513.7	534.8	561.6	569.2
45°	474.5	485.0	509.0	537.7	543.4
47.5°	443.9	455.4	483.1	511.8	518.5
50°	417.1	427.6	455.4	483.1	487.9
52.5°	388.4	398.0	428.6	451.6	452.5
55°	357.8	369.3	399.9	418.1	416.2
57.5°	330.1	339.6	369.3	378.9	373.1
60°	300.4	309.0	338.7	339.6	331.0
62.5°	271.7	280.3	303.3	296.6	286.1
65°	243.0	251.6	267.9	255.4	245.9
67.5°	215.3	222.9	232.5	216.2	206.6
70°	185.6	196.1	197.1	177.9	168.4
72.5°	159.8	165.5	163.6	145.4	136.8
75°	131.1	137.8	129.2	111.9	105.2
77.5°	104.3	109.1	97.6	81.3	76.5
80°	77.5	80.4	67.0	54.5	51.7
82.5°	52.6	52.6	38.3	29.7	26.8
85°	30.6	26.8	16.3	14.4	14.4
87.5°	10.5	6.7	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)