

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: P258659

Luminaire Tested: **14CZ-LD5-25-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1928.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

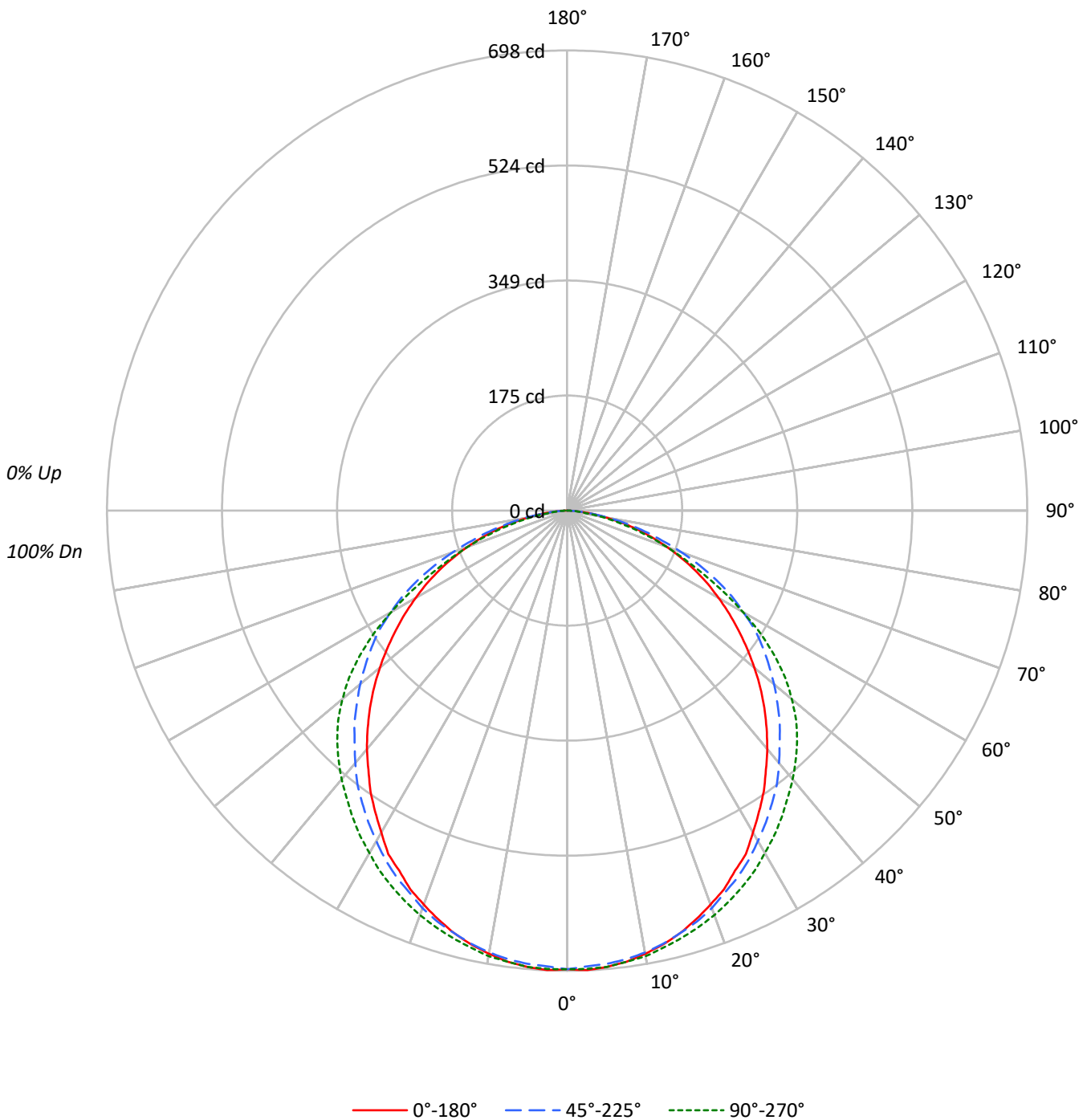
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1872	1872	1872
5°	1877	1864	1877
10°	1865	1860	1875
15°	1848	1848	1869
20°	1821	1837	1870
25°	1789	1820	1868
30°	1751	1799	1864
35°	1708	1780	1864
40°	1659	1756	1870
45°	1610	1736	1877
50°	1552	1715	1862
55°	1490	1699	1802
60°	1427	1662	1658
65°	1362	1592	1452
70°	1264	1451	1257
75°	1147	1265	1038
80°	913	1001	766
85°	645	559	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.4
10°-20°	188.1	9.8
20°-30°	283.6	14.7
30°-40°	339.9	17.6
40°-50°	352.7	18.3
50°-60°	318.1	16.5
60°-70°	232.1	12.0
70°-80°	121.8	6.3
80°-90°	26.0	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°	537.5	27.9
0°-40°	877.3	45.5
0°-60°	1548.2	80.3
0°-90°	1928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	695	693	690	695	695	66
15°	663	663	663	671	671	187
25°	603	606	613	626	629	278
35°	520	526	542	562	567	325
45°	423	432	456	484	493	326
55°	318	329	362	386	384	284
65°	214	226	250	240	228	211
75°	110	126	122	106	100	116
85°	21	26	18	15	14	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.8	695.8	695.8	695.8	695.8
2.5°	697.7	695.8	692.0	695.8	695.8
5°	694.8	692.9	690.1	694.8	694.8
7.5°	690.1	688.2	686.3	691.0	690.1
10°	682.5	681.5	680.6	686.3	686.3
12.5°	673.9	673.9	672.9	679.6	678.7
15°	663.4	663.4	663.4	671.0	671.0
17.5°	650.1	652.0	653.9	662.5	662.5
20°	635.9	637.8	641.6	652.0	653.0
22.5°	621.6	622.6	626.4	638.7	641.6
25°	602.6	605.5	613.1	626.4	629.2
27.5°	587.4	588.4	596.9	612.1	615.9
30°	563.6	570.3	578.9	596.0	599.8
32.5°	541.8	547.5	560.8	578.9	584.6
35°	519.9	525.6	541.8	561.7	567.4
37.5°	495.2	503.8	522.8	542.7	549.4
40°	472.4	480.0	500.0	524.7	532.3
42.5°	447.7	455.3	477.1	504.7	513.3
45°	423.0	431.5	456.2	483.8	493.3
47.5°	397.3	406.8	432.5	462.9	471.4
50°	370.7	381.1	409.7	441.0	444.8
52.5°	344.1	355.5	385.9	413.5	417.3
55°	317.5	328.9	362.1	385.9	384.0
57.5°	291.8	304.2	338.4	350.7	348.8
60°	265.2	278.5	308.9	314.6	308.0
62.5°	240.5	252.8	281.3	276.6	268.0
65°	213.9	226.2	250.0	240.5	228.1
67.5°	187.2	202.5	217.7	201.5	192.0
70°	160.6	177.7	184.4	168.2	159.7
72.5°	135.0	153.0	151.1	135.0	129.3
75°	110.3	125.5	121.7	105.5	99.8
77.5°	83.6	100.8	92.2	78.9	74.1
80°	58.9	74.1	64.6	53.2	49.4
82.5°	39.0	49.4	39.9	31.4	28.5
85°	20.9	25.7	18.1	15.2	14.3
87.5°	8.6	7.6	6.7	6.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)