

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: P258666

Luminaire Tested: **14CZ-LD5-25-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258666
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2319.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

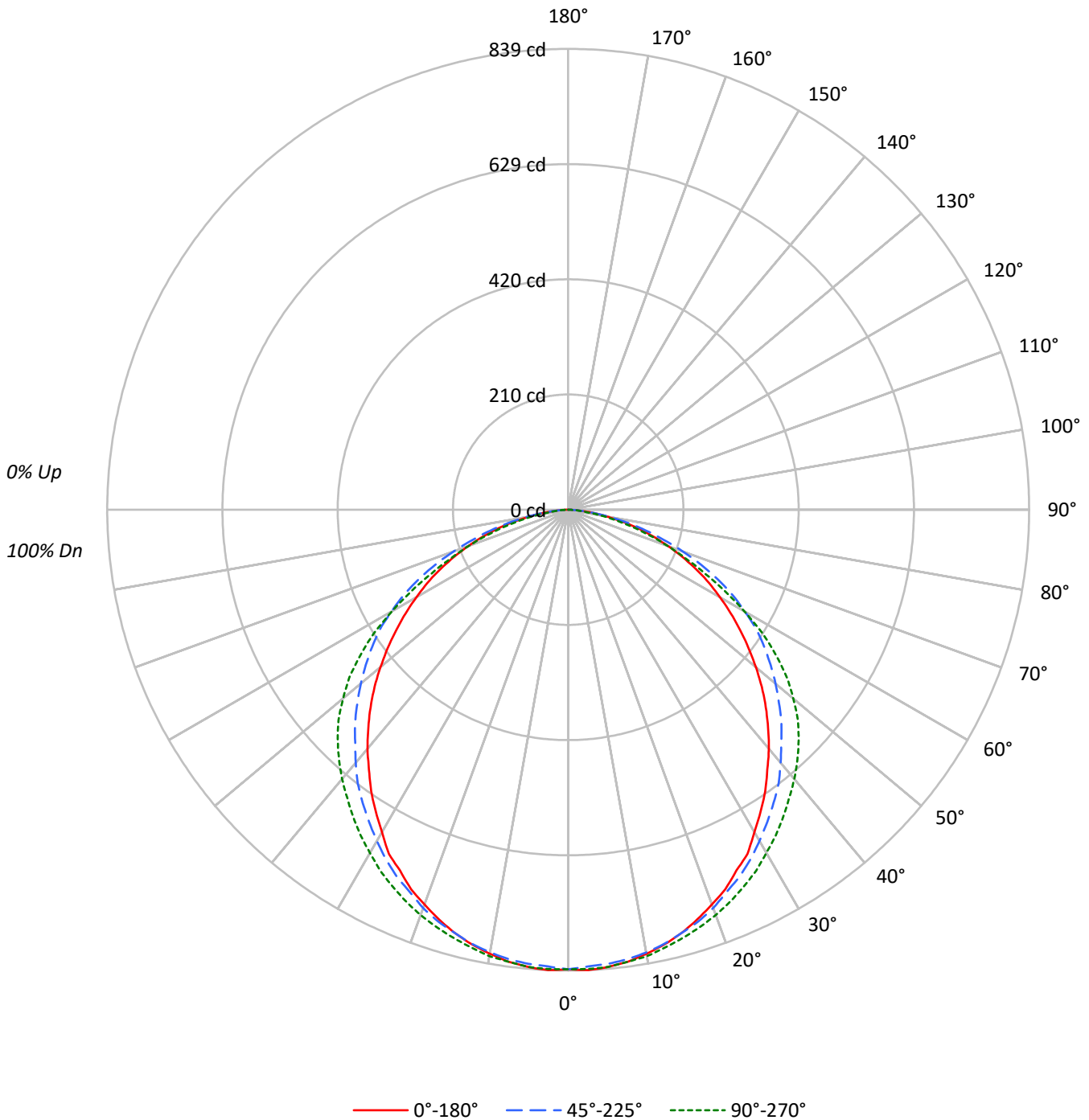
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2252	2252	2252
5°	2257	2242	2257
10°	2243	2237	2255
15°	2223	2223	2249
20°	2190	2210	2249
25°	2152	2189	2247
30°	2106	2163	2242
35°	2054	2141	2242
40°	1996	2113	2249
45°	1936	2089	2258
50°	1867	2063	2240
55°	1791	2044	2167
60°	1717	2000	1993
65°	1638	1915	1747
70°	1520	1745	1511
75°	1379	1521	1248
80°	1099	1204	921
85°	778	670	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	3.4
10°-20°	226.2	9.8
20°-30°	341.1	14.7
30°-40°	408.8	17.6
40°-50°	424.3	18.3
50°-60°	382.7	16.5
60°-70°	279.1	12.0
70°-80°	146.5	6.3
80°-90°	31.2	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°	646.5	27.9
0°-40°	1055.3	45.5
0°-60°	1862.2	80.3
0°-90°	2319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	836	833	830	836	836	79
15°	798	798	798	807	807	225
25°	725	728	737	753	757	334
35°	625	632	652	676	682	391
45°	509	519	549	582	593	392
55°	382	396	436	464	462	342
65°	257	272	301	289	274	254
75°	133	151	146	127	120	139
85°	25	31	22	18	17	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.9	836.9	836.9	836.9	836.9
2.5°	839.1	836.9	832.3	836.9	836.9
5°	835.7	833.4	830.0	835.7	835.7
7.5°	830.0	827.7	825.4	831.1	830.0
10°	820.9	819.7	818.6	825.4	825.4
12.5°	810.6	810.6	809.4	817.4	816.3
15°	798.0	798.0	798.0	807.1	807.1
17.5°	782.0	784.3	786.6	796.8	796.8
20°	764.8	767.1	771.7	784.3	785.4
22.5°	747.7	748.8	753.4	768.3	771.7
25°	724.8	728.3	737.4	753.4	756.8
27.5°	706.5	707.7	718.0	736.3	740.8
30°	677.9	686.0	696.2	716.8	721.4
32.5°	651.7	658.5	674.5	696.2	703.1
35°	625.4	632.2	651.7	675.7	682.5
37.5°	595.6	605.9	628.8	652.8	660.8
40°	568.2	577.3	601.4	631.1	640.2
42.5°	538.5	547.6	573.9	607.1	617.4
45°	508.7	519.0	548.8	581.9	593.3
47.5°	477.9	489.3	520.2	556.8	567.1
50°	445.9	458.4	492.7	530.5	535.0
52.5°	413.9	427.6	464.2	497.3	501.9
55°	381.8	395.6	435.6	464.2	461.9
57.5°	351.0	365.8	407.0	421.9	419.6
60°	319.0	335.0	371.6	378.4	370.4
62.5°	289.2	304.1	338.4	332.7	322.4
65°	257.2	272.1	300.7	289.2	274.4
67.5°	225.2	243.5	261.8	242.4	230.9
70°	193.2	213.8	221.8	202.4	192.1
72.5°	162.3	184.1	181.8	162.3	155.5
75°	132.6	150.9	146.3	126.9	120.0
77.5°	100.6	121.2	110.9	94.9	89.2
80°	70.9	89.2	77.7	64.0	59.4
82.5°	46.9	59.4	48.0	37.7	34.3
85°	25.2	30.9	21.7	18.3	17.1
87.5°	10.3	9.1	8.0	8.0	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)