

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: P258606

Luminaire Tested: **14CZ-LD5-25-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258606
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-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2322.0 lumens
Efficiency: N/A
Efficacy: 128.0 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

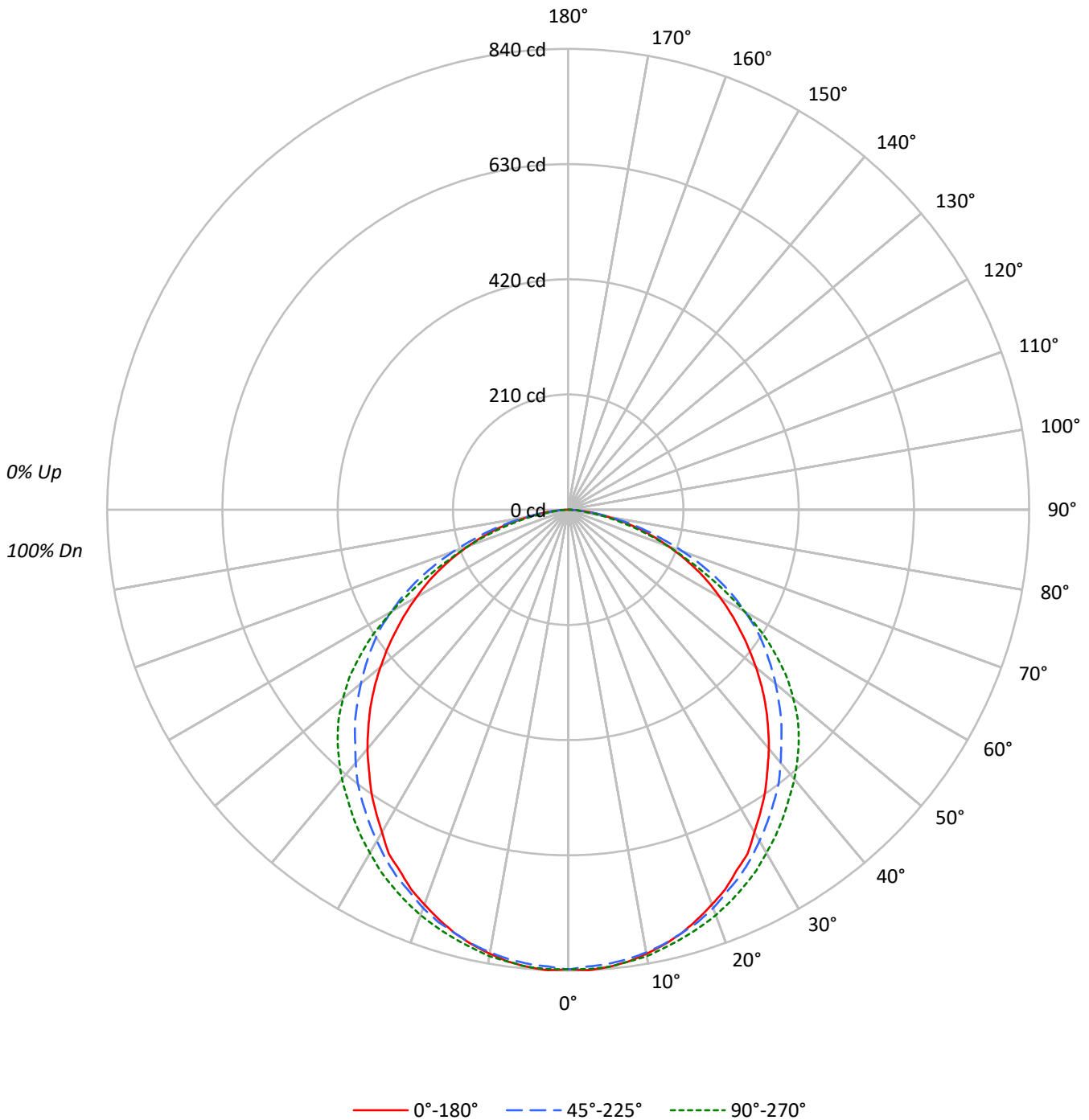
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2255	2255	2255
5°	2260	2245	2260
10°	2246	2240	2258
15°	2226	2226	2252
20°	2193	2213	2252
25°	2155	2192	2250
30°	2109	2166	2244
35°	2057	2144	2245
40°	1998	2115	2252
45°	1939	2091	2261
50°	1869	2066	2243
55°	1794	2046	2170
60°	1719	2002	1996
65°	1640	1917	1749
70°	1522	1747	1513
75°	1381	1523	1250
80°	1100	1206	922
85°	778	670	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	3.4
10°-20°	226.5	9.8
20°-30°	341.5	14.7
30°-40°	409.3	17.6
40°-50°	424.8	18.3
50°-60°	383.2	16.5
60°-70°	279.5	12.0
70°-80°	146.6	6.3
80°-90°	31.3	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°	647.3	27.9
0°-40°	1056.6	45.5
0°-60°	1864.6	80.3
0°-90°	2322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	837	834	831	837	837	79
15°	799	799	799	808	808	225
25°	726	729	738	754	758	335
35°	626	633	652	676	683	391
45°	509	520	550	583	594	393
55°	382	396	436	465	462	342
65°	258	272	301	290	275	255
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°	837.9	837.9	837.9	837.9	837.9
2.5°	840.2	837.9	833.4	837.9	837.9
5°	836.8	834.5	831.1	836.8	836.8
7.5°	831.1	828.8	826.5	832.2	831.1
10°	821.9	820.8	819.6	826.5	826.5
12.5°	811.6	811.6	810.5	818.5	817.3
15°	799.0	799.0	799.0	808.2	808.2
17.5°	783.0	785.3	787.6	797.9	797.9
20°	765.8	768.1	772.7	785.3	786.4
22.5°	748.7	749.8	754.4	769.3	772.7
25°	725.8	729.2	738.4	754.4	757.8
27.5°	707.4	708.6	718.9	737.2	741.8
30°	678.8	686.8	697.1	717.7	722.3
32.5°	652.5	659.4	675.4	697.1	704.0
35°	626.2	633.0	652.5	676.5	683.4
37.5°	596.4	606.7	629.6	653.6	661.7
40°	568.9	578.1	602.1	631.9	641.1
42.5°	539.2	548.3	574.7	607.9	618.2
45°	509.4	519.7	549.5	582.7	594.1
47.5°	478.5	489.9	520.9	557.5	567.8
50°	446.4	459.0	493.4	531.2	535.7
52.5°	414.4	428.1	464.8	498.0	502.5
55°	382.3	396.1	436.1	464.8	462.5
57.5°	351.4	366.3	407.5	422.4	420.1
60°	319.4	335.4	372.0	378.9	370.9
62.5°	289.6	304.5	338.8	333.1	322.8
65°	257.6	272.4	301.1	289.6	274.7
67.5°	225.5	243.8	262.1	242.7	231.2
70°	193.5	214.1	222.1	202.6	192.3
72.5°	162.6	184.3	182.0	162.6	155.7
75°	132.8	151.1	146.5	127.1	120.2
77.5°	100.7	121.3	111.0	95.0	89.3
80°	71.0	89.3	77.8	64.1	59.5
82.5°	46.9	59.5	48.1	37.8	34.3
85°	25.2	30.9	21.7	18.3	17.2
87.5°	10.3	9.2	8.0	8.0	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)