

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: P258540

Luminaire Tested: **14CZ-LD5-20-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258540
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-LD5-20-UNV-L83050-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2234.5 lumens
Efficiency: N/A
Efficacy: 138.9 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

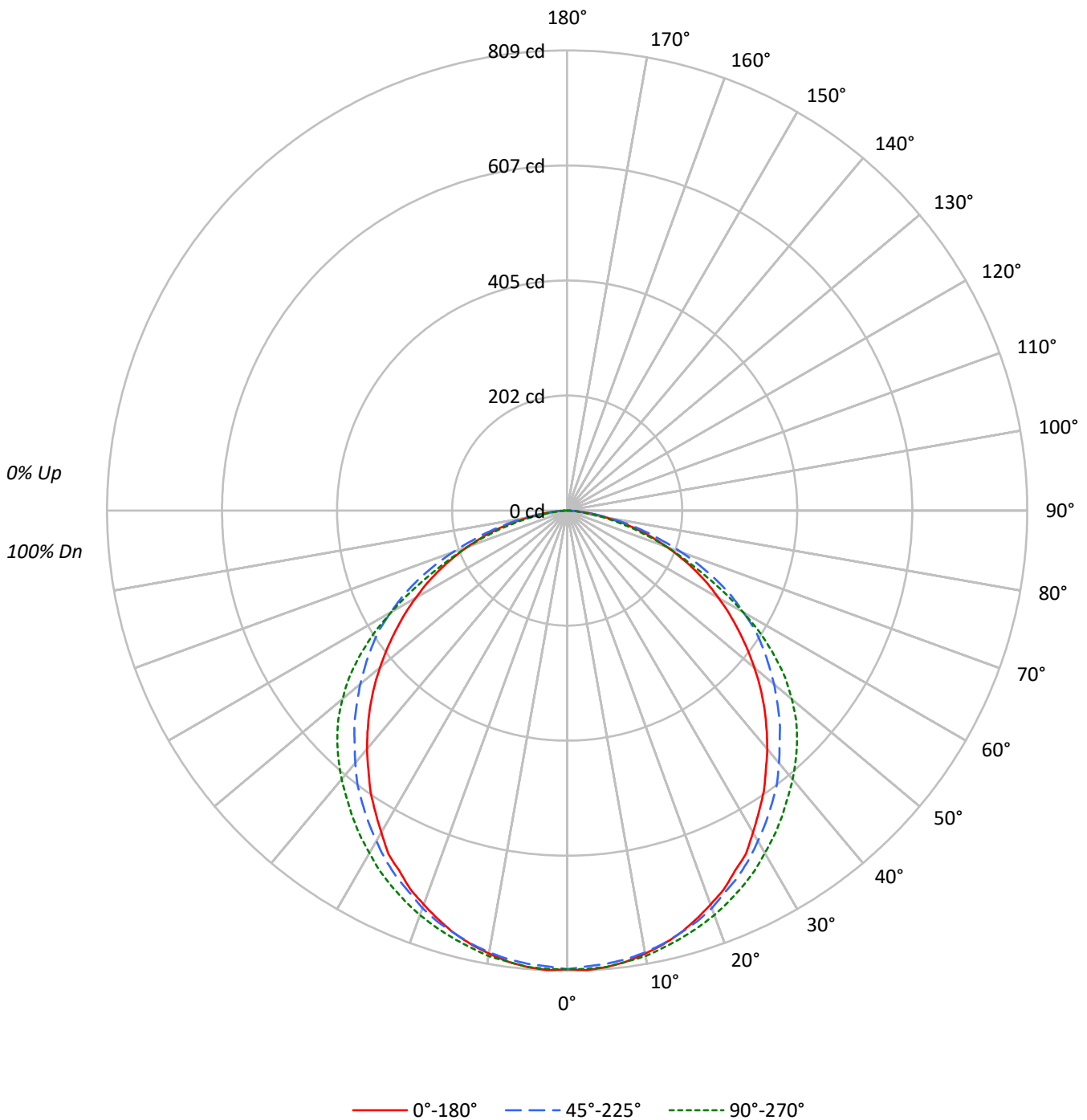
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2170	2170	2170
5°	2175	2160	2175
10°	2161	2155	2173
15°	2142	2142	2167
20°	2111	2129	2167
25°	2074	2110	2165
30°	2030	2085	2160
35°	1980	2063	2160
40°	1923	2035	2167
45°	1866	2012	2176
50°	1798	1988	2158
55°	1726	1969	2088
60°	1654	1927	1921
65°	1578	1845	1684
70°	1465	1681	1456
75°	1329	1466	1203
80°	1058	1161	888
85°	747	645	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.4
10°-20°	218.0	9.8
20°-30°	328.6	14.7
30°-40°	393.9	17.6
40°-50°	408.8	18.3
50°-60°	368.7	16.5
60°-70°	269.0	12.0
70°-80°	141.1	6.3
80°-90°	30.1	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°	622.9	27.9
0°-40°	1016.8	45.5
0°-60°	1794.3	80.3
0°-90°	2234.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2234.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	805	803	800	805	805	76
15°	769	769	769	778	778	217
25°	698	702	710	726	729	322
35°	603	609	628	651	658	376
45°	490	500	529	561	572	378
55°	368	381	420	447	445	329
65°	248	262	290	279	264	245
75°	128	145	141	122	116	134
85°	24	30	21	18	16	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.4	806.4	806.4	806.4	806.4
2.5°	808.6	806.4	802.0	806.4	806.4
5°	805.3	803.1	799.8	805.3	805.3
7.5°	799.8	797.5	795.3	800.9	799.8
10°	790.9	789.8	788.7	795.3	795.3
12.5°	781.0	781.0	779.9	787.6	786.5
15°	768.9	768.9	768.9	777.7	777.7
17.5°	753.5	755.7	757.9	767.8	767.8
20°	737.0	739.2	743.6	755.7	756.8
22.5°	720.4	721.5	725.9	740.3	743.6
25°	698.4	701.7	710.5	725.9	729.2
27.5°	680.8	681.9	691.8	709.4	713.8
30°	653.2	661.0	670.9	690.7	695.1
32.5°	627.9	634.5	649.9	670.9	677.5
35°	602.6	609.2	627.9	651.0	657.6
37.5°	573.9	583.8	605.9	629.0	636.7
40°	547.5	556.3	579.4	608.1	616.9
42.5°	518.8	527.7	553.0	584.9	594.9
45°	490.2	500.1	528.8	560.7	571.7
47.5°	460.5	471.5	501.2	536.5	546.4
50°	429.6	441.7	474.8	511.1	515.5
52.5°	398.8	412.0	447.2	479.2	483.6
55°	367.9	381.1	419.7	447.2	445.0
57.5°	338.2	352.5	392.2	406.5	404.3
60°	307.3	322.8	358.0	364.6	356.9
62.5°	278.7	293.0	326.1	320.6	310.6
65°	247.9	262.2	289.7	278.7	264.4
67.5°	217.0	234.6	252.3	233.5	222.5
70°	186.2	206.0	213.7	195.0	185.1
72.5°	156.4	177.4	175.2	156.4	149.8
75°	127.8	145.4	141.0	122.3	115.7
77.5°	96.9	116.8	106.9	91.4	85.9
80°	68.3	85.9	74.9	61.7	57.3
82.5°	45.2	57.3	46.3	36.4	33.0
85°	24.2	29.7	20.9	17.6	16.5
87.5°	9.9	8.8	7.7	7.7	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)