

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: P258544

Luminaire Tested: **14CZ-LD5-25-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258544
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-L83050-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2607.6 lumens
Efficiency: N/A
Efficacy: 136.1 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

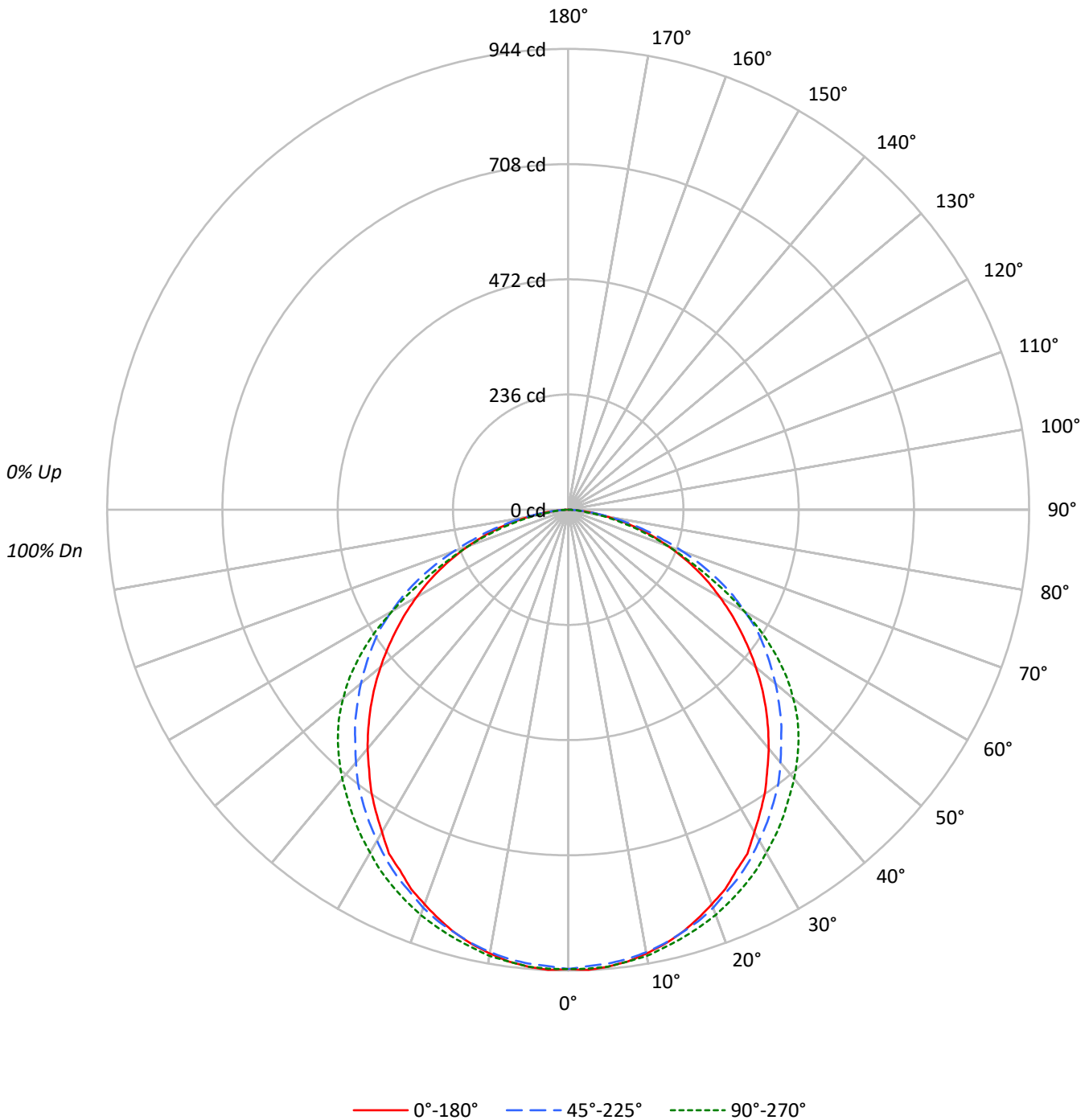
Input Watts (W): 19.158
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2532	2532	2532
5°	2538	2521	2538
10°	2522	2515	2536
15°	2500	2500	2528
20°	2463	2485	2529
25°	2420	2462	2527
30°	2369	2433	2521
35°	2310	2407	2521
40°	2244	2375	2529
45°	2177	2348	2539
50°	2099	2320	2519
55°	2015	2298	2437
60°	1931	2249	2242
65°	1841	2153	1964
70°	1710	1962	1699
75°	1550	1710	1404
80°	1235	1354	1035
85°	874	753	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.4
10°-20°	254.4	9.8
20°-30°	383.5	14.7
30°-40°	459.7	17.6
40°-50°	477.1	18.3
50°-60°	430.3	16.5
60°-70°	313.9	12.0
70°-80°	164.7	6.3
80°-90°	35.1	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°	726.9	27.9
0°-40°	1186.6	45.5
0°-60°	2093.9	80.3
0°-90°	2607.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2607.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	940	937	933	940	940	89
15°	897	897	897	908	908	253
25°	815	819	829	847	851	376
35°	703	711	733	760	768	439
45°	572	584	617	654	667	441
55°	429	445	490	522	519	384
65°	289	306	338	325	308	286
75°	149	170	164	143	135	156
85°	28	35	24	21	19	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	941.0	941.0	941.0	941.0	941.0
2.5°	943.6	941.0	935.9	941.0	941.0
5°	939.7	937.2	933.3	939.7	939.7
7.5°	933.3	930.7	928.2	934.6	933.3
10°	923.0	921.7	920.4	928.2	928.2
12.5°	911.4	911.4	910.2	919.2	917.9
15°	897.3	897.3	897.3	907.6	907.6
17.5°	879.3	881.9	884.4	896.0	896.0
20°	860.0	862.6	867.7	881.9	883.2
22.5°	840.7	842.0	847.2	863.9	867.7
25°	815.0	818.9	829.2	847.2	851.0
27.5°	794.5	795.7	807.3	827.9	833.0
30°	762.3	771.3	782.9	806.0	811.2
32.5°	732.8	740.5	758.5	782.9	790.6
35°	703.2	710.9	732.8	759.7	767.5
37.5°	669.8	681.3	707.0	734.0	743.0
40°	638.9	649.2	676.2	709.6	719.9
42.5°	605.5	615.8	645.3	682.6	694.2
45°	572.1	583.6	617.1	654.3	667.2
47.5°	537.4	550.2	584.9	626.1	637.6
50°	501.4	515.5	554.1	596.5	601.6
52.5°	465.4	480.8	521.9	559.2	564.3
55°	429.4	444.8	489.8	521.9	519.4
57.5°	394.7	411.4	457.6	474.4	471.8
60°	358.7	376.7	417.8	425.5	416.5
62.5°	325.2	342.0	380.5	374.1	362.5
65°	289.2	306.0	338.1	325.2	308.5
67.5°	253.2	273.8	294.4	272.5	259.7
70°	217.3	240.4	249.4	227.5	216.0
72.5°	182.5	207.0	204.4	182.5	174.8
75°	149.1	169.7	164.5	142.7	135.0
77.5°	113.1	136.3	124.7	106.7	100.3
80°	79.7	100.3	87.4	72.0	66.8
82.5°	52.7	66.8	54.0	42.4	38.6
85°	28.3	34.7	24.4	20.6	19.3
87.5°	11.6	10.3	9.0	9.0	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)