

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: P258889

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2489.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

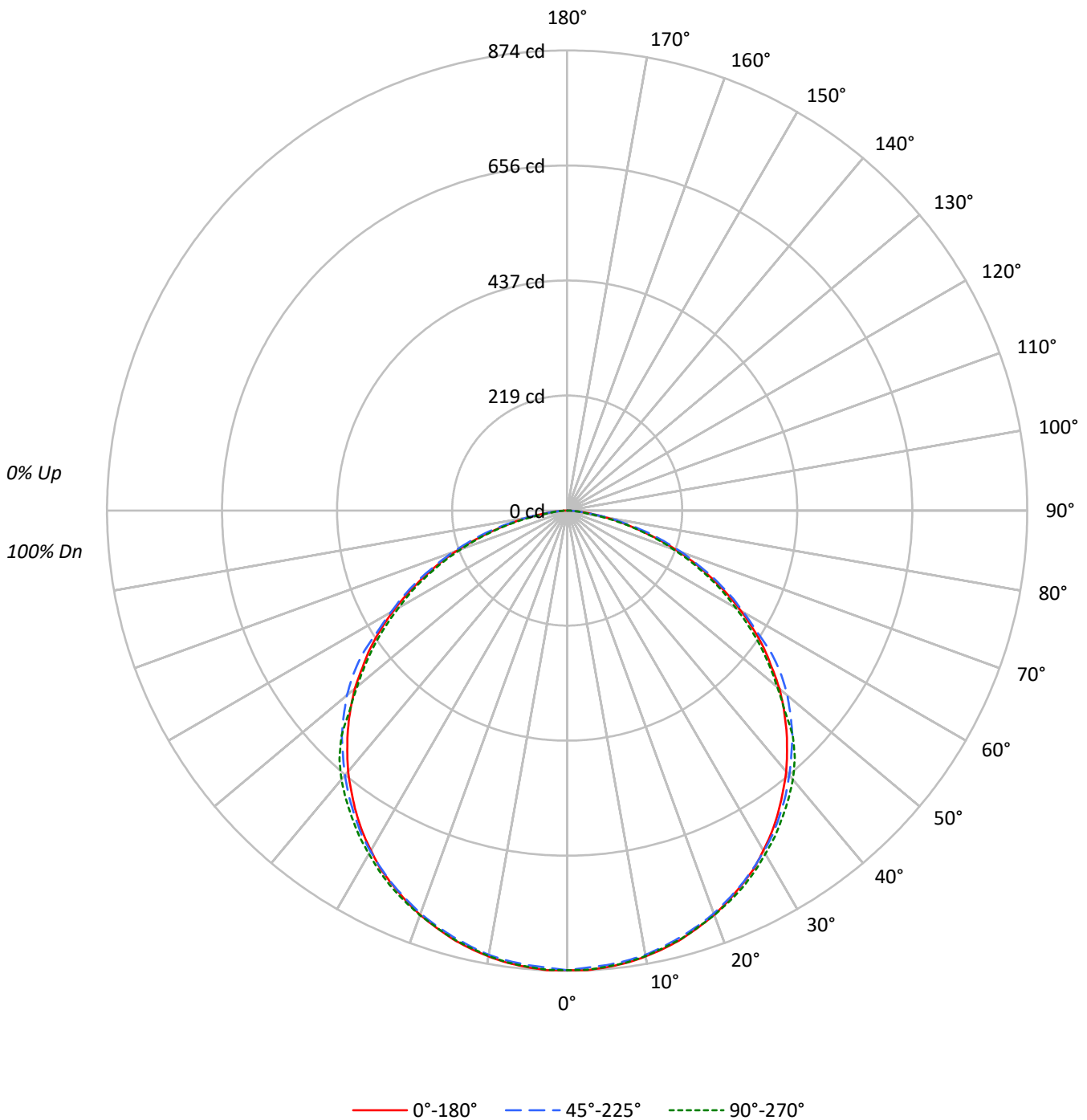
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2349	2349	2349
5°	2351	2340	2349
10°	2350	2341	2347
15°	2346	2335	2344
20°	2339	2332	2342
25°	2329	2327	2344
30°	2316	2322	2339
35°	2297	2316	2340
40°	2274	2305	2342
45°	2242	2303	2306
50°	2204	2286	2180
55°	2143	2227	2101
60°	2052	2083	1991
65°	1922	1973	1870
70°	1749	1819	1692
75°	1459	1594	1434
80°	1156	1220	993
85°	750	651	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	3.3
10°-20°	237.3	9.5
20°-30°	362.3	14.6
30°-40°	441.7	17.7
40°-50°	462.5	18.6
50°-60°	411.5	16.5
60°-70°	303.6	12.2
70°-80°	156.9	6.3
80°-90°	30.5	1.2
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°	682.3	27.4
0°-40°	1124.0	45.2
0°-60°	1998.1	80.3
0°-90°	2489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	870	870	866	870	870	83
15°	842	841	838	841	841	238
25°	784	784	784	789	789	362
35°	699	700	705	713	712	437
45°	589	593	605	611	606	454
55°	457	466	475	454	448	407
65°	302	323	310	299	294	299
75°	140	155	153	141	138	152
85°	24	27	21	20	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.9	872.9	872.9	872.9	872.9
2.5°	873.7	872.9	868.8	872.9	872.9
5°	870.5	869.7	866.4	869.7	869.7
7.5°	866.4	865.6	862.4	865.6	865.6
10°	859.9	859.1	856.7	859.9	859.1
12.5°	851.8	851.8	847.8	851.8	850.2
15°	842.1	841.3	838.0	841.3	841.3
17.5°	829.9	829.1	826.7	830.7	829.1
20°	816.9	816.1	814.5	818.5	817.7
22.5°	801.5	801.5	799.1	803.9	803.9
25°	784.5	784.5	783.7	789.3	789.3
27.5°	767.4	765.8	765.8	771.5	772.3
30°	745.5	745.5	747.2	753.6	752.8
32.5°	723.6	724.4	727.7	733.4	734.2
35°	699.3	700.1	705.0	713.1	712.3
37.5°	673.3	675.8	681.4	690.4	690.4
40°	647.4	649.0	656.3	666.0	666.8
42.5°	618.2	622.2	630.3	641.7	640.1
45°	589.0	593.0	605.2	610.9	606.0
47.5°	558.1	563.0	575.2	576.0	559.8
50°	526.5	532.2	546.0	529.7	520.8
52.5°	490.0	500.5	512.7	490.0	484.3
55°	456.7	466.5	474.6	454.3	447.8
57.5°	419.4	432.4	426.7	417.0	408.9
60°	381.3	395.1	387.0	377.2	369.9
62.5°	342.3	357.8	349.6	339.9	333.4
65°	301.8	322.9	309.9	299.4	293.7
67.5°	263.7	283.9	268.5	260.4	254.7
70°	222.3	239.3	231.2	220.7	215.0
72.5°	181.7	194.7	192.3	180.9	176.9
75°	140.3	154.9	153.3	141.2	137.9
77.5°	105.5	119.3	114.4	104.7	100.6
80°	74.6	83.6	78.7	67.3	64.1
82.5°	45.4	52.7	44.6	38.1	34.9
85°	24.3	26.8	21.1	19.5	18.7
87.5°	8.9	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)