

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: P258884

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258884
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-LD5-29-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: 2070.0 lumens
Efficiency: N/A
Efficacy: 91.6 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

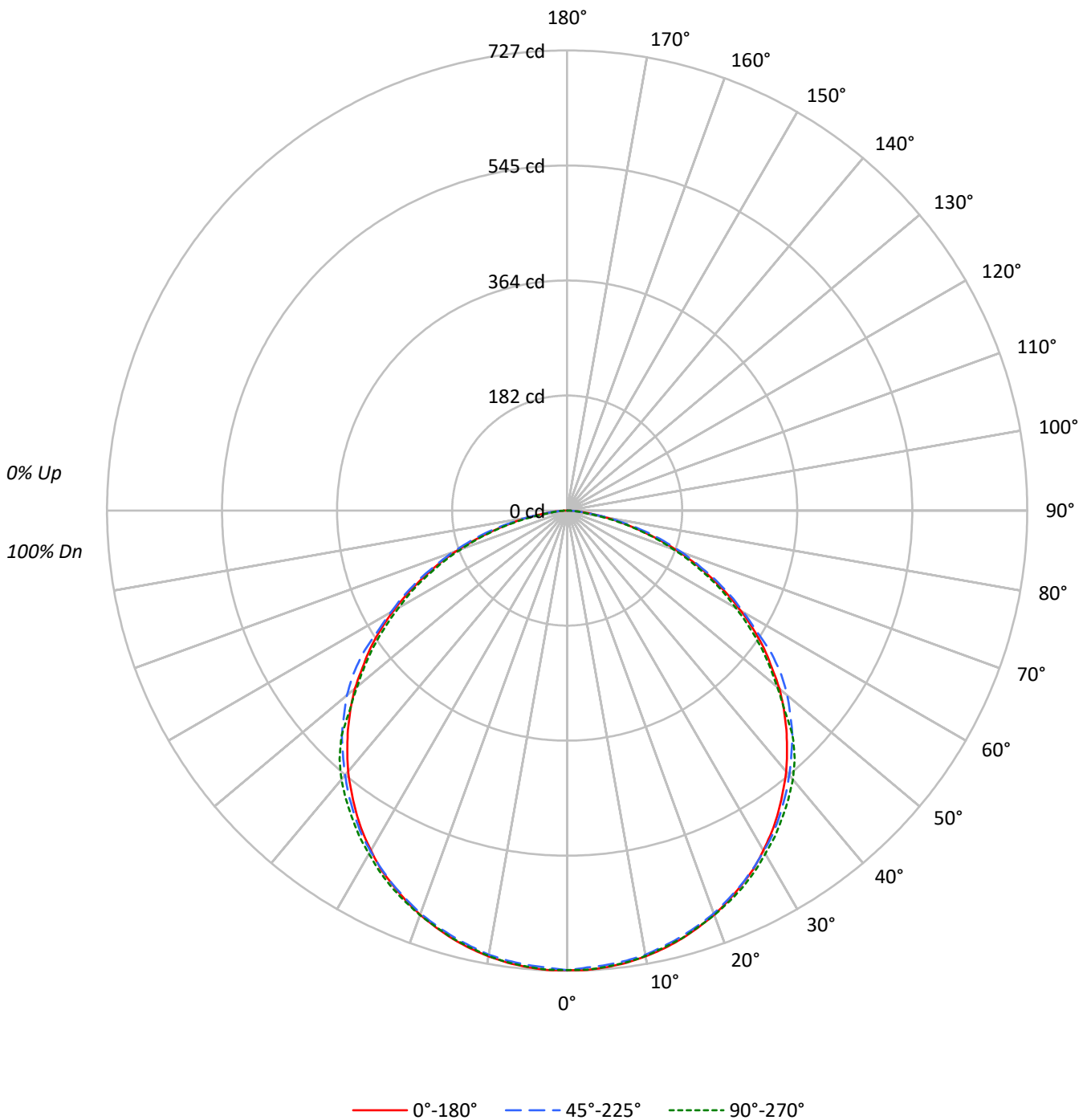
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1954	1954	1954
5°	1955	1947	1954
10°	1954	1947	1952
15°	1951	1941	1949
20°	1946	1940	1948
25°	1937	1935	1949
30°	1927	1931	1945
35°	1911	1926	1946
40°	1891	1917	1948
45°	1864	1915	1918
50°	1833	1901	1813
55°	1782	1852	1747
60°	1707	1732	1656
65°	1598	1641	1555
70°	1455	1513	1407
75°	1213	1326	1193
80°	962	1013	826
85°	624	540	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.3
10°-20°	197.4	9.5
20°-30°	301.3	14.6
30°-40°	367.4	17.7
40°-50°	384.7	18.6
50°-60°	342.2	16.5
60°-70°	252.5	12.2
70°-80°	130.5	6.3
80°-90°	25.3	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°	567.4	27.4
0°-40°	934.8	45.2
0°-60°	1661.7	80.3
0°-90°	2070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	724	723	721	723	723	69
15°	700	700	697	700	700	198
25°	652	652	652	656	656	301
35°	582	582	586	593	592	364
45°	490	493	503	508	504	378
55°	380	388	395	378	372	338
65°	251	268	258	249	244	249
75°	117	129	128	117	115	126
85°	20	22	18	16	16	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	726.0	726.0	726.0	726.0	726.0
2.5°	726.6	726.0	722.6	726.0	726.0
5°	723.9	723.3	720.6	723.3	723.3
7.5°	720.6	719.9	717.2	719.9	719.9
10°	715.2	714.5	712.5	715.2	714.5
12.5°	708.4	708.4	705.0	708.4	707.1
15°	700.3	699.6	696.9	699.6	699.6
17.5°	690.2	689.5	687.5	690.9	689.5
20°	679.4	678.7	677.4	680.8	680.1
22.5°	666.6	666.6	664.6	668.6	668.6
25°	652.4	652.4	651.7	656.5	656.5
27.5°	638.2	636.9	636.9	641.6	642.3
30°	620.0	620.0	621.4	626.8	626.1
32.5°	601.8	602.5	605.2	609.9	610.6
35°	581.6	582.2	586.3	593.0	592.4
37.5°	560.0	562.0	566.7	574.2	574.2
40°	538.4	539.7	545.8	553.9	554.6
42.5°	514.1	517.5	524.2	533.7	532.3
45°	489.8	493.2	503.3	508.0	504.0
47.5°	464.2	468.2	478.3	479.0	465.5
50°	437.9	442.6	454.1	440.6	433.1
52.5°	407.5	416.3	426.4	407.5	402.8
55°	379.8	387.9	394.7	377.8	372.4
57.5°	348.8	359.6	354.9	346.8	340.0
60°	317.1	328.6	321.8	313.7	307.7
62.5°	284.7	297.5	290.8	282.7	277.3
65°	251.0	268.5	257.7	249.0	244.2
67.5°	219.3	236.1	223.3	216.6	211.8
70°	184.9	199.0	192.3	183.5	178.8
72.5°	151.1	161.9	159.9	150.5	147.1
75°	116.7	128.9	127.5	117.4	114.7
77.5°	87.7	99.2	95.1	87.0	83.7
80°	62.1	69.5	65.4	56.0	53.3
82.5°	37.8	43.9	37.1	31.7	29.0
85°	20.2	22.3	17.5	16.2	15.5
87.5°	7.4	7.4	7.4	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)