

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: P275876

Luminaire Tested: **14CZ2-39-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2112.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

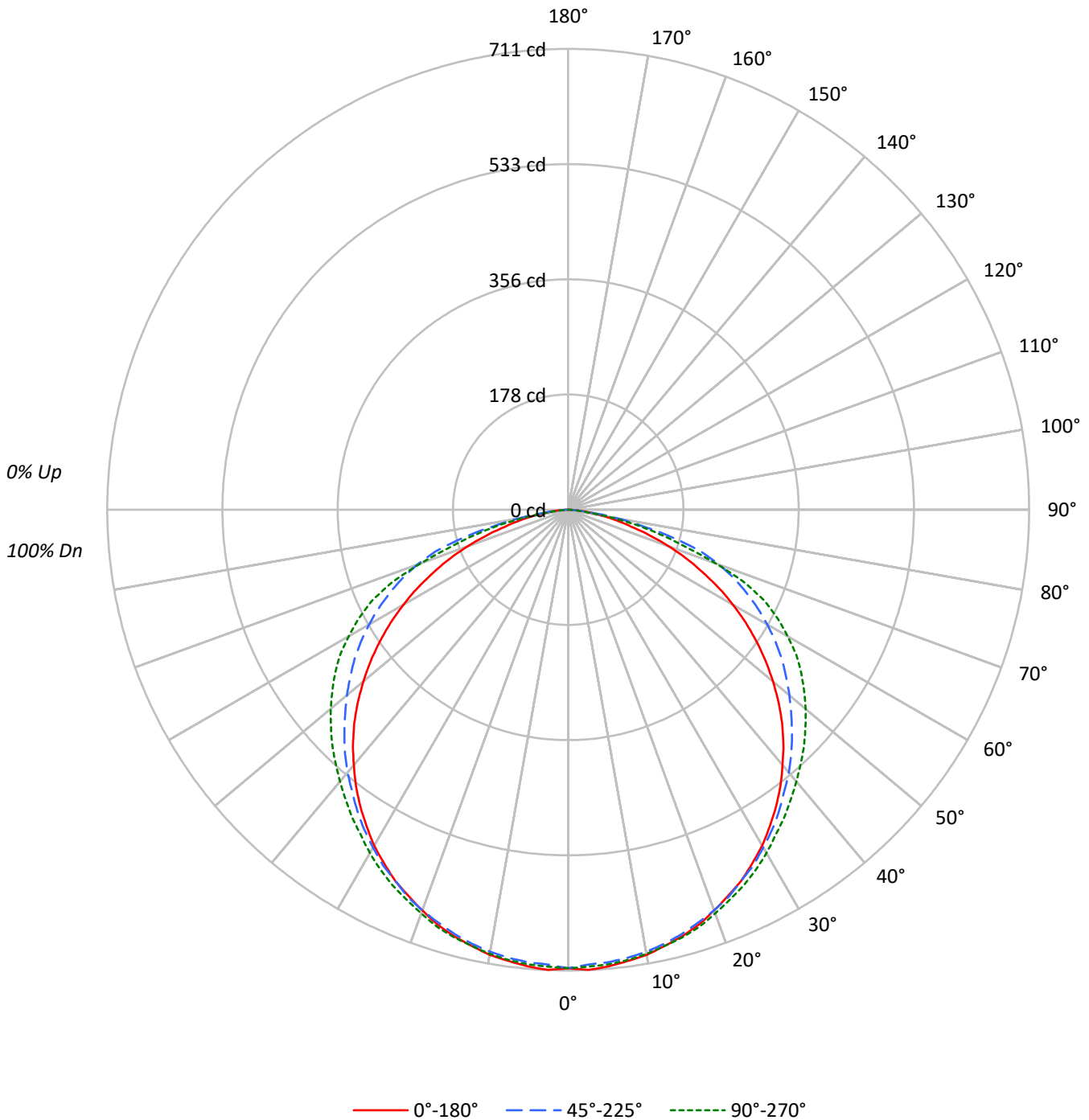
Input Watts (W): 31.062
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1904	1904	1904
5°	1911	1893	1902
10°	1906	1892	1901
15°	1897	1888	1902
20°	1884	1884	1898
25°	1875	1875	1900
30°	1860	1870	1901
35°	1836	1863	1907
40°	1807	1859	1923
45°	1776	1858	1958
50°	1726	1864	2002
55°	1663	1887	2058
60°	1580	1908	2103
65°	1459	1932	2131
70°	1297	1946	1907
75°	1046	1749	1525
80°	818	1226	996
85°	559	355	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.2
10°-20°	192.1	9.1
20°-30°	292.5	13.8
30°-40°	356.2	16.9
40°-50°	378.0	17.9
50°-60°	356.7	16.9
60°-70°	288.0	13.6
70°-80°	156.2	7.4
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°	551.5	26.1
0°-40°	907.8	43.0
0°-60°	1642.5	77.8
0°-90°	2112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	707	706	701	706	704	67
15°	681	679	678	683	683	192
25°	632	630	632	638	640	291
35°	559	562	567	579	580	349
45°	467	473	488	506	514	359
55°	354	369	402	429	439	317
65°	229	257	303	328	335	227
75°	101	147	168	152	147	110
85°	18	20	12	10	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.4	707.4	707.4	707.4	707.4
2.5°	710.7	707.4	702.4	707.4	705.7
5°	707.4	705.7	700.8	705.7	704.1
7.5°	702.4	702.4	697.5	700.8	700.8
10°	697.5	695.8	692.5	697.5	695.8
12.5°	689.2	687.6	685.9	690.9	689.2
15°	681.0	679.3	677.7	682.6	682.6
17.5°	671.1	669.4	667.8	674.4	674.4
20°	657.9	657.9	657.9	664.5	662.8
22.5°	644.7	644.7	646.4	653.0	651.3
25°	631.5	629.9	631.5	638.1	639.8
27.5°	615.0	616.7	618.3	624.9	626.6
30°	598.5	600.2	601.8	610.1	611.7
32.5°	578.8	582.0	585.3	595.2	595.2
35°	559.0	562.3	567.2	578.8	580.4
37.5°	537.5	540.8	547.4	560.6	563.9
40°	514.4	519.4	529.3	542.5	547.4
42.5°	491.4	498.0	509.5	524.3	530.9
45°	466.6	473.2	488.1	506.2	514.4
47.5°	440.2	448.5	466.6	489.7	496.3
50°	412.2	423.8	445.2	469.9	478.2
52.5°	384.2	397.4	423.8	450.1	458.4
55°	354.5	369.3	402.3	428.7	438.6
57.5°	324.8	341.3	379.2	407.3	417.2
60°	293.5	313.3	354.5	382.5	390.8
62.5°	262.2	285.3	329.8	357.8	364.4
65°	229.2	257.2	303.4	328.1	334.7
67.5°	197.9	230.8	277.0	295.1	295.1
70°	164.9	201.2	247.3	252.3	242.4
72.5°	131.9	173.1	214.4	196.2	188.0
75°	100.6	146.7	168.2	151.7	146.7
77.5°	75.8	118.7	118.7	108.8	105.5
80°	52.8	90.7	79.1	69.3	64.3
82.5°	34.6	51.1	41.2	33.0	28.0
85°	18.1	19.8	11.5	9.9	8.2
87.5°	6.6	3.3	1.6	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)