

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: P258958

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258958
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-L82765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2061.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

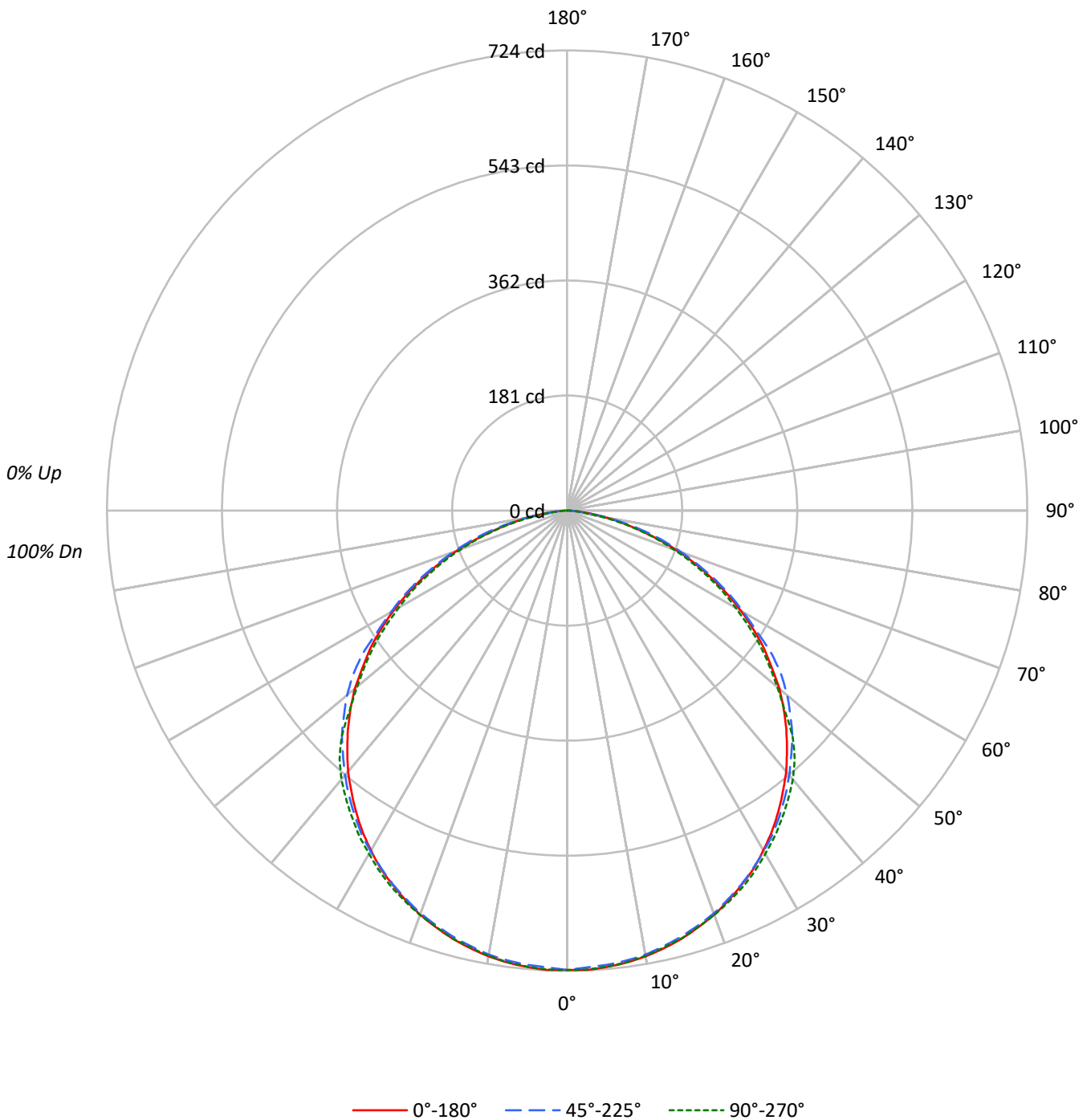
Input Watts (W): 23.157
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1945	1945	1945
5°	1947	1938	1945
10°	1946	1938	1944
15°	1943	1933	1941
20°	1937	1931	1939
25°	1929	1927	1941
30°	1918	1922	1937
35°	1902	1918	1938
40°	1883	1909	1940
45°	1856	1907	1910
50°	1825	1893	1806
55°	1774	1844	1740
60°	1699	1724	1648
65°	1591	1634	1549
70°	1448	1506	1400
75°	1208	1320	1187
80°	958	1010	823
85°	624	540	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	3.3
10°-20°	196.5	9.5
20°-30°	300.0	14.6
30°-40°	365.8	17.7
40°-50°	383.0	18.6
50°-60°	340.7	16.5
60°-70°	251.4	12.2
70°-80°	129.9	6.3
80°-90°	25.2	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°	565.0	27.4
0°-40°	930.8	45.2
0°-60°	1654.5	80.3
0°-90°	2061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	721	720	717	720	720	69
15°	697	697	694	697	697	197
25°	650	650	649	654	654	300
35°	579	580	584	590	590	362
45°	488	491	501	506	502	376
55°	378	386	393	376	371	337
65°	250	267	257	248	243	248
75°	116	128	127	117	114	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°	722.8	722.8	722.8	722.8	722.8
2.5°	723.5	722.8	719.4	722.8	722.8
5°	720.8	720.1	717.4	720.1	720.1
7.5°	717.4	716.8	714.1	716.8	716.8
10°	712.1	711.4	709.4	712.1	711.4
12.5°	705.3	705.3	702.0	705.3	704.0
15°	697.3	696.6	693.9	696.6	696.6
17.5°	687.2	686.5	684.5	687.9	686.5
20°	676.5	675.8	674.4	677.8	677.1
22.5°	663.7	663.7	661.7	665.7	665.7
25°	649.6	649.6	648.9	653.6	653.6
27.5°	635.5	634.1	634.1	638.8	639.5
30°	617.3	617.3	618.7	624.1	623.4
32.5°	599.2	599.9	602.6	607.3	607.9
35°	579.0	579.7	583.7	590.5	589.8
37.5°	557.6	559.6	564.3	571.7	571.7
40°	536.1	537.4	543.4	551.5	552.2
42.5°	511.9	515.2	521.9	531.4	530.0
45°	487.7	491.0	501.1	505.8	501.8
47.5°	462.2	466.2	476.3	476.9	463.5
50°	436.0	440.7	452.1	438.7	431.3
52.5°	405.7	414.5	424.5	405.7	401.0
55°	378.2	386.3	393.0	376.2	370.8
57.5°	347.3	358.0	353.3	345.3	338.6
60°	315.7	327.1	320.4	312.4	306.3
62.5°	283.5	296.2	289.5	281.5	276.1
65°	249.9	267.4	256.6	247.9	243.2
67.5°	218.3	235.1	222.3	215.6	210.9
70°	184.1	198.2	191.4	182.7	178.0
72.5°	150.5	161.2	159.2	149.8	146.4
75°	116.2	128.3	127.0	116.9	114.2
77.5°	87.3	98.7	94.7	86.7	83.3
80°	61.8	69.2	65.2	55.8	53.1
82.5°	37.6	43.7	36.9	31.6	28.9
85°	20.2	22.2	17.5	16.1	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)