

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: P260465

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x2 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: 2097.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

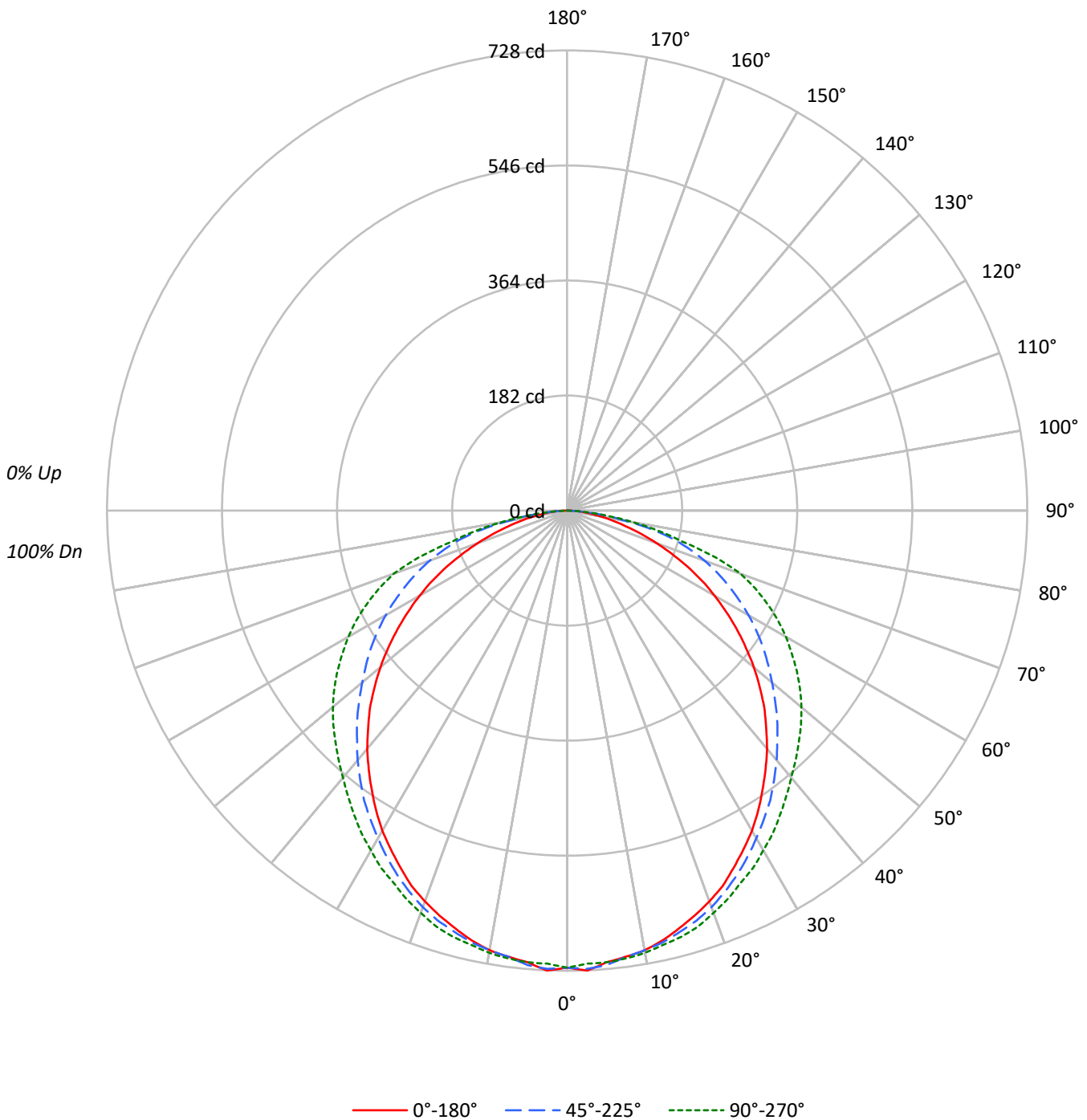
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	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	37	31	43	36	31	42	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	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1946	1946	1946
5°	1938	1949	1938
10°	1930	1930	1941
15°	1906	1922	1945
20°	1884	1912	1940
25°	1851	1888	1929
30°	1817	1860	1929
35°	1771	1839	1930
40°	1729	1811	1938
45°	1678	1789	1973
50°	1615	1771	2025
55°	1537	1777	2082
60°	1451	1786	2150
65°	1338	1796	2227
70°	1186	1817	2295
75°	1006	1811	1955
80°	835	1457	1629
85°	726	982	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	3.3
10°-20°	194.8	9.3
20°-30°	293.1	14.0
30°-40°	351.3	16.8
40°-50°	366.3	17.5
50°-60°	341.1	16.3
60°-70°	276.9	13.2
70°-80°	166.9	8.0
80°-90°	38.3	1.8
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°	556.3	26.5
0°-40°	907.5	43.3
0°-60°	1614.9	77.0
0°-90°	2097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	717	717	722	723	717	68
15°	684	687	690	694	698	193
25°	623	628	636	644	650	287
35°	539	546	560	576	588	337
45°	441	449	470	500	518	339
55°	328	341	379	420	444	293
65°	210	232	282	326	350	208
75°	97	129	174	185	188	105
85°	24	29	32	30	30	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.0	723.0	723.0	723.0	723.0
2.5°	728.5	727.1	725.7	721.6	717.4
5°	717.4	717.4	721.6	723.0	717.4
7.5°	711.9	711.9	711.9	717.4	714.7
10°	706.4	706.4	706.4	710.5	710.5
12.5°	696.7	698.1	699.5	700.8	703.6
15°	684.3	687.0	689.8	693.9	698.1
17.5°	671.8	674.6	680.1	684.3	689.8
20°	658.0	660.8	667.7	671.8	677.3
22.5°	642.8	644.2	652.5	658.0	664.9
25°	623.4	627.6	635.9	644.2	649.7
27.5°	604.1	608.2	617.9	629.0	637.3
30°	584.7	588.9	598.6	612.4	620.7
32.5°	562.6	568.1	579.2	595.8	605.5
35°	539.1	546.0	559.9	576.4	587.5
37.5°	515.6	522.5	537.7	558.5	569.5
40°	492.1	499.0	515.6	537.7	551.6
42.5°	465.9	474.1	492.1	518.4	535.0
45°	441.0	449.3	470.0	500.4	518.4
47.5°	413.3	423.0	446.5	481.1	501.8
50°	385.7	396.7	423.0	461.7	483.8
52.5°	356.6	369.1	400.9	441.0	464.5
55°	327.6	341.4	378.8	420.2	443.7
57.5°	298.6	313.8	355.3	398.1	421.6
60°	269.6	286.1	331.8	376.0	399.5
62.5°	240.5	258.5	306.9	351.1	376.0
65°	210.1	232.2	282.0	326.2	349.7
67.5°	179.7	206.0	257.1	300.0	322.1
70°	150.7	179.7	230.9	270.9	291.7
72.5°	123.0	153.4	203.2	237.8	246.1
75°	96.8	128.6	174.2	185.2	188.0
77.5°	74.6	103.7	138.2	141.0	147.9
80°	53.9	78.8	94.0	102.3	105.1
82.5°	37.3	53.9	62.2	63.6	65.0
85°	23.5	29.0	31.8	30.4	30.4
87.5°	12.4	11.1	9.7	6.9	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)