

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: P259495

Luminaire Tested: **22CZ-LD5-20-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2037.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

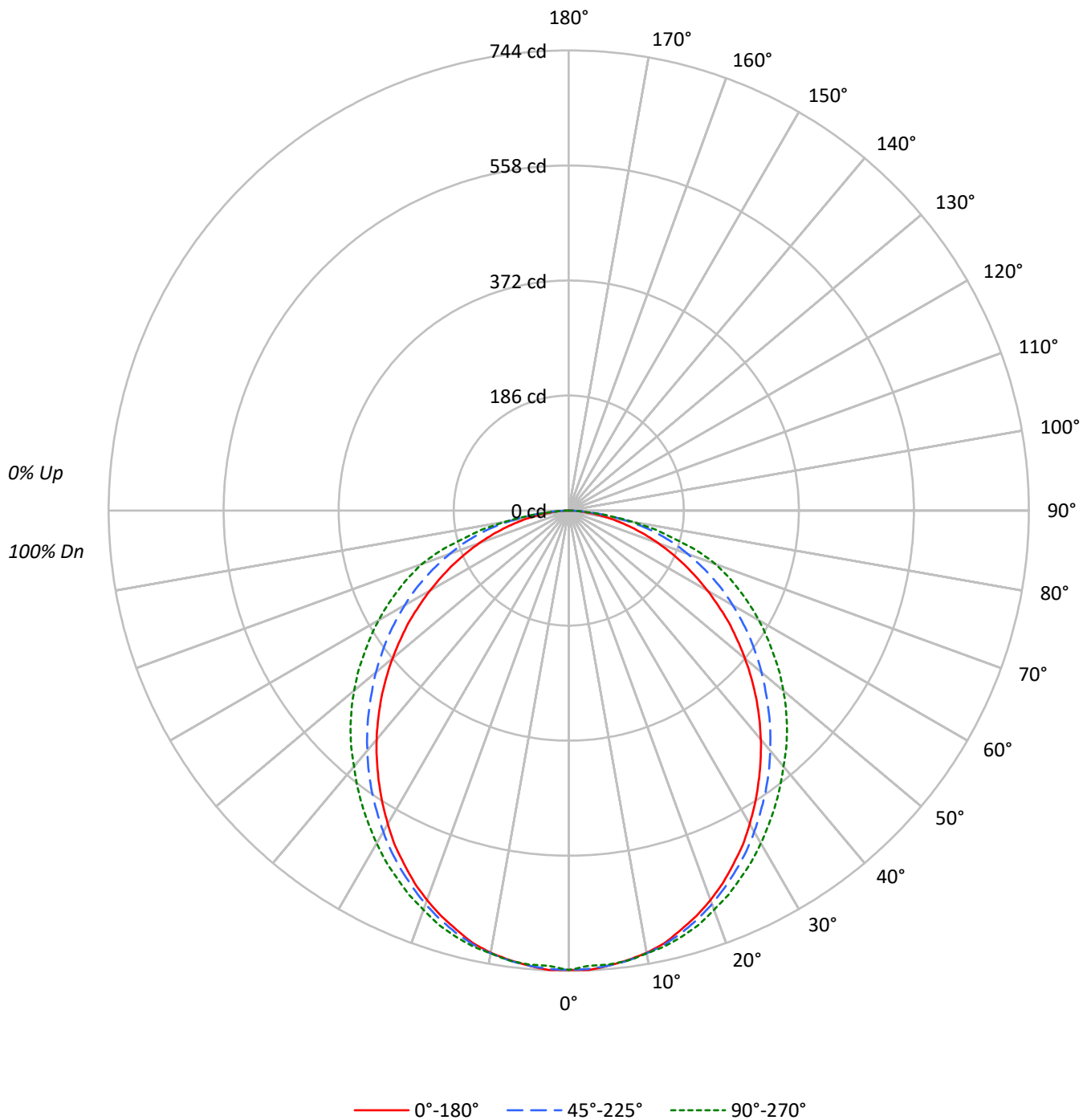
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1998	1998	1998
5°	1995	1995	1990
10°	1984	1987	1987
15°	1954	1968	1984
20°	1919	1939	1967
25°	1871	1903	1949
30°	1818	1864	1931
35°	1758	1823	1912
40°	1698	1780	1897
45°	1631	1739	1899
50°	1557	1704	1896
55°	1483	1675	1896
60°	1396	1648	1912
65°	1309	1626	1938
70°	1209	1609	1986
75°	1089	1597	1841
80°	955	1486	1607
85°	784	1118	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.4
10°-20°	199.2	9.8
20°-30°	295.9	14.5
30°-40°	348.3	17.1
40°-50°	355.1	17.4
50°-60°	320.2	15.7
60°-70°	252.2	12.4
70°-80°	155.6	7.6
80°-90°	40.4	2.0
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°	565.2	27.7
0°-40°	913.5	44.8
0°-60°	1588.8	78.0
0°-90°	2037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	739	740	739	738	737	70
15°	702	704	706	710	712	198
25°	630	634	641	652	656	290
35°	535	541	555	572	582	335
45°	428	435	457	484	499	330
55°	316	327	357	389	404	282
65°	206	220	255	288	304	204
75°	105	122	154	171	177	112
85°	25	32	36	34	32	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.6	742.6	742.6	742.6	742.6
2.5°	743.6	743.6	741.6	739.7	736.7
5°	738.7	739.7	738.7	737.7	736.7
7.5°	732.8	733.8	733.8	733.8	733.8
10°	726.0	727.0	727.0	727.0	727.0
12.5°	716.2	717.2	718.1	719.1	721.1
15°	701.5	704.4	706.4	710.3	712.3
17.5°	686.8	689.8	692.7	697.6	701.5
20°	670.2	672.2	677.1	682.9	686.8
22.5°	651.6	654.6	659.4	667.3	673.1
25°	630.1	634.0	640.9	651.6	656.5
27.5°	609.5	612.5	621.3	633.0	639.9
30°	585.1	589.0	599.8	614.4	621.3
32.5°	560.6	565.5	577.3	593.9	601.7
35°	535.2	541.1	554.8	572.4	582.1
37.5°	509.7	515.6	531.3	550.8	561.6
40°	483.3	489.2	506.8	528.3	540.1
42.5°	455.9	462.8	482.4	506.8	520.5
45°	428.5	435.4	456.9	484.3	499.0
47.5°	400.2	408.0	431.5	461.8	476.5
50°	371.8	380.6	407.0	438.3	453.0
52.5°	343.4	353.2	381.6	413.9	429.5
55°	316.0	326.8	357.1	389.4	404.1
57.5°	286.7	299.4	331.7	363.0	379.6
60°	259.3	273.0	306.2	337.5	355.2
62.5°	231.9	246.6	281.8	313.1	329.7
65°	205.5	220.1	255.4	287.7	304.3
67.5°	179.0	195.7	229.9	262.2	278.8
70°	153.6	171.2	204.5	235.8	252.4
72.5°	129.1	146.8	180.0	209.4	219.2
75°	104.7	122.3	153.6	171.2	177.1
77.5°	82.2	98.8	126.2	137.0	144.8
80°	61.6	76.3	95.9	102.7	103.7
82.5°	42.1	54.8	66.5	67.5	66.5
85°	25.4	32.3	36.2	34.2	32.3
87.5°	11.7	12.7	11.7	7.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)