

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: P259494

Luminaire Tested: **22CZ-LD5-20-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259494
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-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1996.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

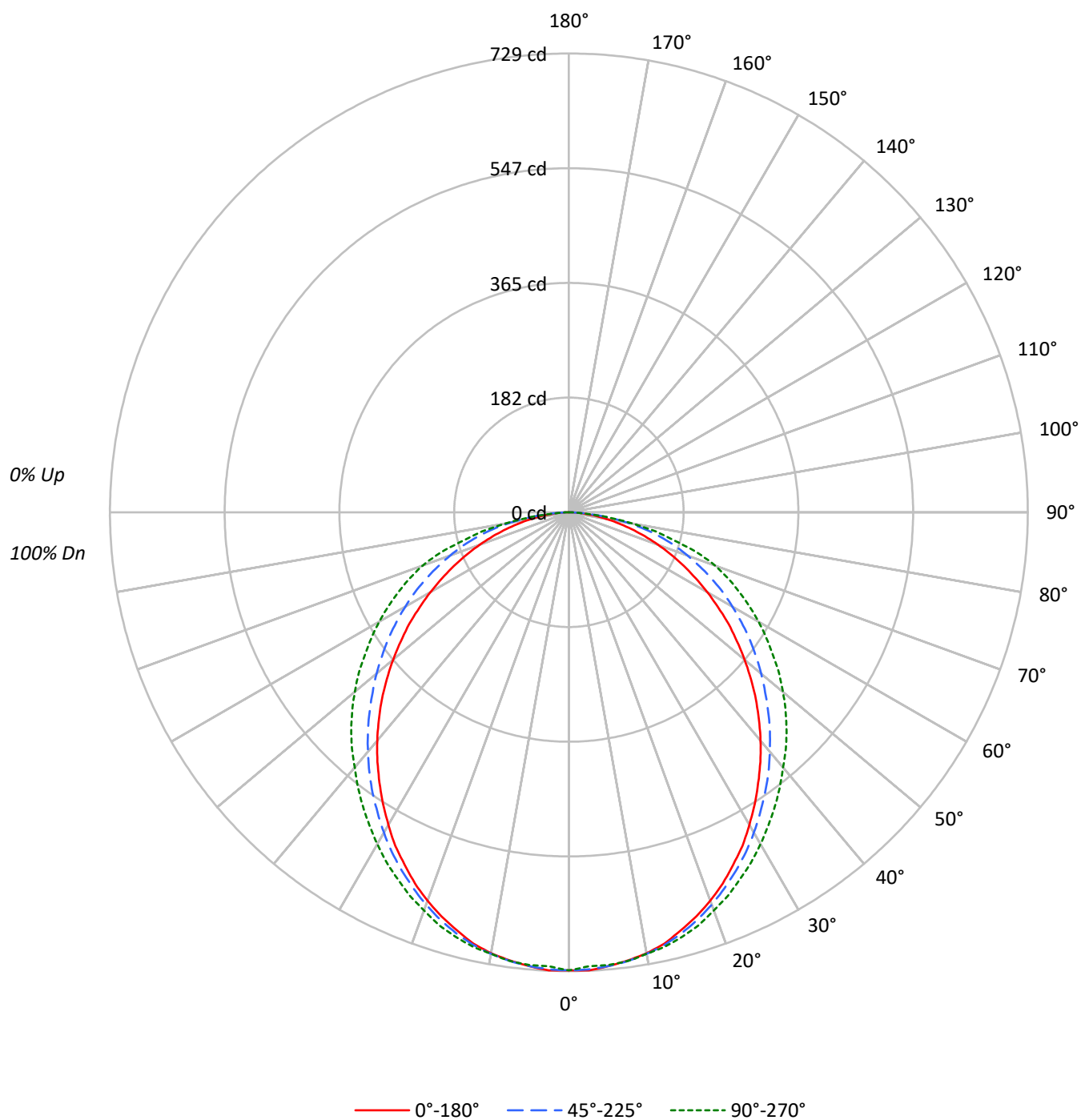
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1958	1958	1958
5°	1955	1955	1950
10°	1944	1946	1946
15°	1915	1928	1944
20°	1881	1900	1927
25°	1833	1865	1910
30°	1781	1826	1892
35°	1723	1786	1874
40°	1664	1744	1859
45°	1598	1704	1861
50°	1525	1670	1858
55°	1453	1642	1857
60°	1368	1615	1873
65°	1282	1593	1899
70°	1184	1577	1946
75°	1067	1565	1804
80°	936	1457	1574
85°	769	1096	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.4
10°-20°	195.2	9.8
20°-30°	289.9	14.5
30°-40°	341.3	17.1
40°-50°	347.9	17.4
50°-60°	313.8	15.7
60°-70°	247.2	12.4
70°-80°	152.5	7.6
80°-90°	39.6	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°	553.8	27.7
0°-40°	895.1	44.8
0°-60°	1556.8	78.0
0°-90°	1996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	724	725	724	723	722	69
15°	687	690	692	696	698	194
25°	617	621	628	638	643	284
35°	524	530	544	561	570	328
45°	420	427	448	475	489	324
55°	310	320	350	382	396	276
65°	201	216	250	282	298	199
75°	103	120	150	168	174	109
85°	25	32	36	34	32	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.7	727.7	727.7	727.7	727.7
2.5°	728.6	728.6	726.7	724.8	721.9
5°	723.8	724.8	723.8	722.9	721.9
7.5°	718.1	719.0	719.0	719.0	719.0
10°	711.4	712.3	712.3	712.3	712.3
12.5°	701.8	702.7	703.7	704.7	706.6
15°	687.4	690.3	692.2	696.0	697.9
17.5°	673.0	675.9	678.8	683.6	687.4
20°	656.7	658.6	663.4	669.2	673.0
22.5°	638.5	641.4	646.2	653.8	659.6
25°	617.4	621.2	628.0	638.5	643.3
27.5°	597.3	600.2	608.8	620.3	627.0
30°	573.3	577.1	587.7	602.1	608.8
32.5°	549.3	554.1	565.6	581.9	589.6
35°	524.4	530.2	543.6	560.8	570.4
37.5°	499.5	505.2	520.6	539.8	550.3
40°	473.6	479.4	496.6	517.7	529.2
42.5°	446.8	453.5	472.6	496.6	510.0
45°	419.9	426.6	447.7	474.6	488.9
47.5°	392.1	399.8	422.8	452.5	466.9
50°	364.3	372.9	398.8	429.5	443.9
52.5°	336.5	346.1	373.9	405.5	420.9
55°	309.7	320.2	349.9	381.6	395.9
57.5°	280.9	293.4	325.0	355.7	372.0
60°	254.1	267.5	300.1	330.8	348.0
62.5°	227.2	241.6	276.1	306.8	323.1
65°	201.3	215.7	250.2	281.9	298.2
67.5°	175.4	191.7	225.3	256.9	273.2
70°	150.5	167.8	200.4	231.0	247.3
72.5°	126.5	143.8	176.4	205.2	214.8
75°	102.6	119.8	150.5	167.8	173.5
77.5°	80.5	96.8	123.7	134.2	141.9
80°	60.4	74.8	94.0	100.7	101.6
82.5°	41.2	53.7	65.2	66.2	65.2
85°	24.9	31.6	35.5	33.6	31.6
87.5°	11.5	12.5	11.5	7.7	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)