

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: P259492

Luminaire Tested: **22CZ-LD5-20-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259492
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1885.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

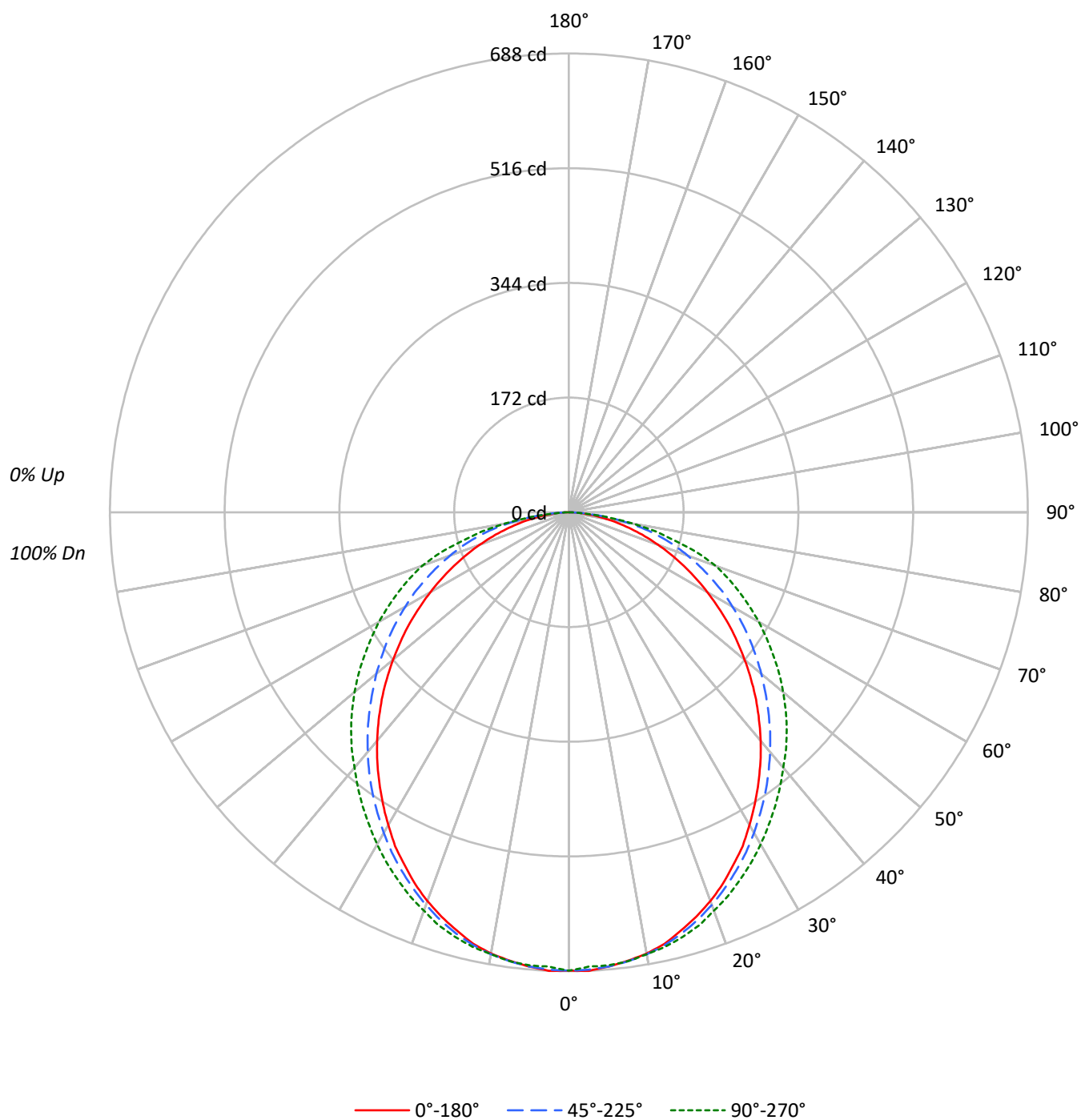
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1849	1849	1849
5°	1847	1847	1842
10°	1836	1838	1838
15°	1809	1821	1836
20°	1776	1794	1820
25°	1731	1761	1804
30°	1682	1725	1786
35°	1627	1687	1770
40°	1571	1648	1756
45°	1509	1609	1757
50°	1440	1577	1755
55°	1372	1551	1754
60°	1291	1525	1769
65°	1210	1505	1793
70°	1118	1489	1838
75°	1007	1477	1704
80°	883	1375	1488
85°	726	1034	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	3.4
10°-20°	184.3	9.8
20°-30°	273.8	14.5
30°-40°	322.3	17.1
40°-50°	328.6	17.4
50°-60°	296.3	15.7
60°-70°	233.4	12.4
70°-80°	144.0	7.6
80°-90°	37.4	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°	523.0	27.7
0°-40°	845.3	44.8
0°-60°	1470.2	78.0
0°-90°	1885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	684	684	684	683	682	65
15°	649	652	654	657	659	183
25°	583	587	593	603	608	269
35°	495	501	513	530	539	310
45°	397	403	423	448	462	306
55°	292	302	330	360	374	261
65°	190	204	236	266	282	188
75°	97	113	142	158	164	103
85°	24	30	34	32	30	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.2	687.2	687.2	687.2	687.2
2.5°	688.1	688.1	686.3	684.5	681.8
5°	683.6	684.5	683.6	682.7	681.8
7.5°	678.1	679.0	679.0	679.0	679.0
10°	671.8	672.7	672.7	672.7	672.7
12.5°	662.7	663.7	664.6	665.5	667.3
15°	649.2	651.9	653.7	657.3	659.1
17.5°	635.6	638.3	641.0	645.5	649.2
20°	620.2	622.0	626.5	632.0	635.6
22.5°	603.0	605.7	610.2	617.5	622.9
25°	583.1	586.7	593.0	603.0	607.5
27.5°	564.1	566.8	574.9	585.8	592.1
30°	541.4	545.0	555.0	568.6	574.9
32.5°	518.8	523.3	534.2	549.6	556.8
35°	495.3	500.7	513.4	529.7	538.7
37.5°	471.7	477.1	491.6	509.7	519.7
40°	447.3	452.7	469.0	488.9	499.8
42.5°	421.9	428.3	446.4	469.0	481.7
45°	396.6	402.9	422.8	448.2	461.8
47.5°	370.3	377.5	399.3	427.3	440.9
50°	344.0	352.2	376.6	405.6	419.2
52.5°	317.8	326.8	353.1	383.0	397.5
55°	292.4	302.4	330.5	360.3	373.9
57.5°	265.3	277.1	306.9	335.9	351.3
60°	239.9	252.6	283.4	312.4	328.7
62.5°	214.6	228.2	260.8	289.7	305.1
65°	190.1	203.7	236.3	266.2	281.6
67.5°	165.7	181.1	212.8	242.6	258.0
70°	142.1	158.4	189.2	218.2	233.6
72.5°	119.5	135.8	166.6	193.8	202.8
75°	96.9	113.2	142.1	158.4	163.9
77.5°	76.1	91.4	116.8	126.8	134.0
80°	57.0	70.6	88.7	95.1	96.0
82.5°	38.9	50.7	61.6	62.5	61.6
85°	23.5	29.9	33.5	31.7	29.9
87.5°	10.9	11.8	10.9	7.2	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)