

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: P260394

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260394
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-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1985.0 lumens
Efficiency: N/A
Efficacy: 95.3 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

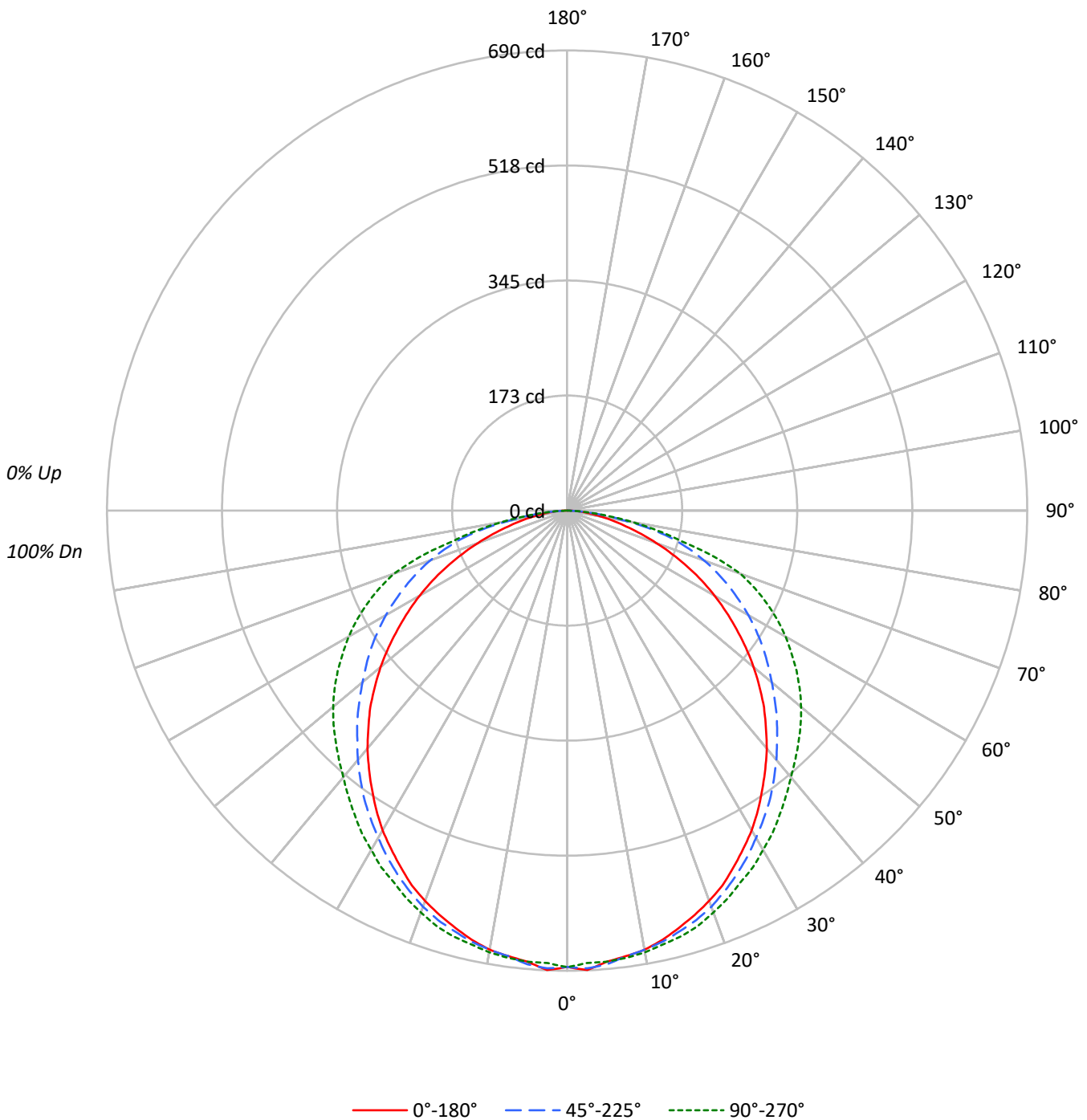
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	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
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1842	1842	1842
5°	1834	1845	1834
10°	1827	1827	1838
15°	1804	1819	1841
20°	1784	1810	1836
25°	1752	1787	1826
30°	1720	1761	1826
35°	1676	1741	1827
40°	1636	1715	1834
45°	1588	1693	1867
50°	1528	1676	1917
55°	1455	1682	1970
60°	1373	1690	2035
65°	1266	1699	2108
70°	1122	1719	2172
75°	952	1714	1851
80°	790	1379	1540
85°	685	929	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.3
10°-20°	184.4	9.3
20°-30°	277.5	14.0
30°-40°	332.5	16.8
40°-50°	346.8	17.5
50°-60°	322.8	16.3
60°-70°	262.1	13.2
70°-80°	158.0	8.0
80°-90°	36.2	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°	526.6	26.5
0°-40°	859.1	43.3
0°-60°	1528.7	77.0
0°-90°	1985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	679	679	683	684	679	65
15°	648	650	653	657	661	183
25°	590	594	602	610	615	272
35°	510	517	530	546	556	319
45°	417	425	445	474	491	321
55°	310	323	358	398	420	277
65°	199	220	267	309	331	197
75°	92	122	165	175	178	99
85°	22	28	30	29	29	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	684.4	684.4	684.4	684.4	684.4
2.5°	689.6	688.3	687.0	683.0	679.1
5°	679.1	679.1	683.0	684.4	679.1
7.5°	673.9	673.9	673.9	679.1	676.5
10°	668.7	668.7	668.7	672.6	672.6
12.5°	659.5	660.8	662.1	663.4	666.0
15°	647.7	650.3	652.9	656.9	660.8
17.5°	635.9	638.6	643.8	647.7	652.9
20°	622.9	625.5	632.0	635.9	641.2
22.5°	608.5	609.8	617.6	622.9	629.4
25°	590.1	594.1	601.9	609.8	615.0
27.5°	571.8	575.7	584.9	595.4	603.2
30°	553.5	557.4	566.6	579.7	587.5
32.5°	532.6	537.8	548.3	564.0	573.1
35°	510.3	516.9	529.9	545.7	556.1
37.5°	488.1	494.6	509.0	528.6	539.1
40°	465.8	472.4	488.1	509.0	522.1
42.5°	441.0	448.8	465.8	490.7	506.4
45°	417.4	425.3	444.9	473.7	490.7
47.5°	391.2	400.4	422.7	455.4	475.0
50°	365.1	375.5	400.4	437.0	458.0
52.5°	337.6	349.4	379.5	417.4	439.7
55°	310.1	323.2	358.5	397.8	420.0
57.5°	282.6	297.0	336.3	376.9	399.1
60°	255.2	270.9	314.0	355.9	378.2
62.5°	227.7	244.7	290.5	332.4	355.9
65°	198.9	219.8	266.9	308.8	331.1
67.5°	170.1	195.0	243.4	283.9	304.9
70°	142.6	170.1	218.5	256.5	276.1
72.5°	116.5	145.2	192.4	225.1	232.9
75°	91.6	121.7	164.9	175.3	178.0
77.5°	70.7	98.1	130.9	133.5	140.0
80°	51.0	74.6	89.0	96.8	99.4
82.5°	35.3	51.0	58.9	60.2	61.5
85°	22.2	27.5	30.1	28.8	28.8
87.5°	11.8	10.5	9.2	6.5	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)