

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: P260302

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-SQP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1865.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

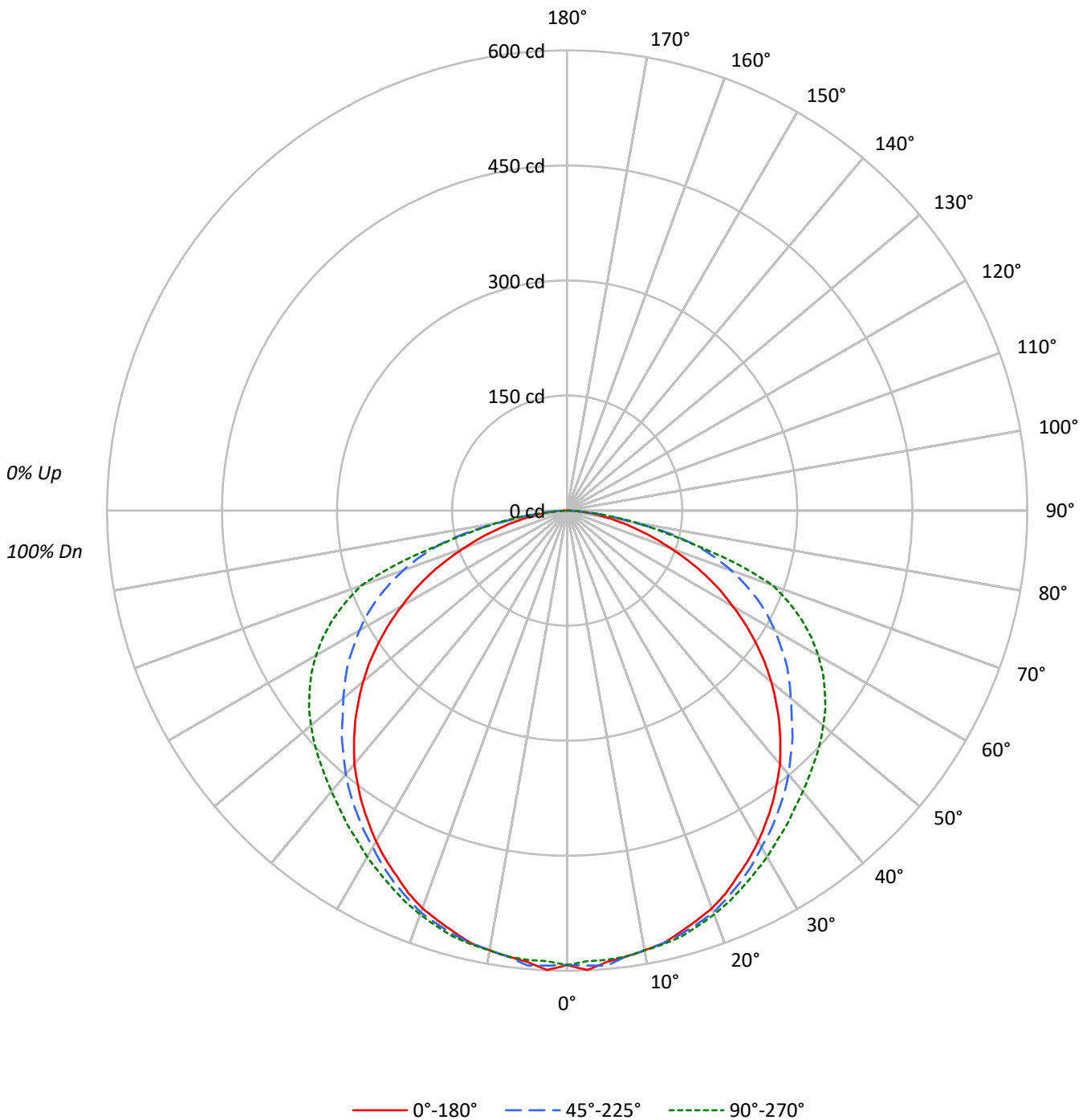
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1594	1594	1594
5°	1596	1608	1588
10°	1591	1591	1591
15°	1586	1594	1602
20°	1580	1597	1605
25°	1561	1587	1608
30°	1548	1575	1620
35°	1532	1575	1642
40°	1516	1577	1679
45°	1488	1582	1742
50°	1455	1595	1825
55°	1407	1638	1923
60°	1341	1683	2034
65°	1263	1743	2149
70°	1128	1789	2245
75°	978	1792	1777
80°	831	1325	1437
85°	716	895	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	3.0
10°-20°	161.5	8.7
20°-30°	246.1	13.2
30°-40°	301.2	16.1
40°-50°	324.1	17.4
50°-60°	313.9	16.8
60°-70°	265.9	14.3
70°-80°	160.7	8.6
80°-90°	35.3	1.9
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°	463.9	24.9
0°-40°	765.1	41.0
0°-60°	1403.0	75.2
0°-90°	1865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	591	591	595	592	588	56
15°	569	571	572	574	575	161
25°	526	529	534	539	542	243
35°	466	469	479	492	500	292
45°	391	398	416	442	458	301
55°	300	313	349	390	410	268
65°	198	220	274	317	338	195
75°	94	128	172	175	171	101
85°	23	28	29	28	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.4	592.4	592.4	592.4	592.4
2.5°	599.6	598.2	593.8	590.9	588.0
5°	590.9	590.9	595.3	592.4	588.0
7.5°	586.6	586.6	586.6	593.8	586.6
10°	582.2	583.7	582.2	588.0	582.2
12.5°	577.9	577.9	577.9	579.3	579.3
15°	569.2	570.6	572.1	573.5	575.0
17.5°	560.5	562.0	564.9	566.3	567.8
20°	551.8	553.3	557.6	557.6	560.5
22.5°	540.2	540.2	546.0	547.5	551.8
25°	525.8	528.6	534.4	538.8	541.7
27.5°	512.7	515.6	521.4	527.2	531.5
30°	498.2	501.1	506.9	515.6	521.4
32.5°	482.3	485.2	493.9	504.0	509.8
35°	466.4	469.3	479.4	492.4	499.7
37.5°	449.0	453.3	464.9	479.4	488.1
40°	431.6	436.0	449.0	464.9	478.0
42.5°	411.3	417.1	431.6	453.3	467.8
45°	391.1	398.3	415.7	441.7	457.7
47.5°	369.3	376.6	396.8	430.2	447.5
50°	347.6	356.3	380.9	417.1	436.0
52.5°	324.4	333.1	365.0	404.1	424.4
55°	299.8	312.8	349.1	389.6	409.9
57.5°	275.2	289.7	330.2	373.7	395.4
60°	249.1	266.5	312.8	356.3	378.0
62.5°	224.5	243.3	294.0	337.5	359.2
65°	198.4	220.1	273.7	317.2	337.5
67.5°	170.9	198.4	250.6	292.6	312.8
70°	143.4	175.3	227.4	266.5	285.3
72.5°	118.8	152.1	201.3	234.6	234.6
75°	94.1	127.5	172.4	175.3	170.9
77.5°	72.4	104.3	134.7	123.1	126.0
80°	53.6	79.7	85.5	89.8	92.7
82.5°	36.2	53.6	55.0	57.9	57.9
85°	23.2	27.5	29.0	27.5	26.1
87.5°	10.1	11.6	8.7	5.8	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)