

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: P260300

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260300
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1855.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

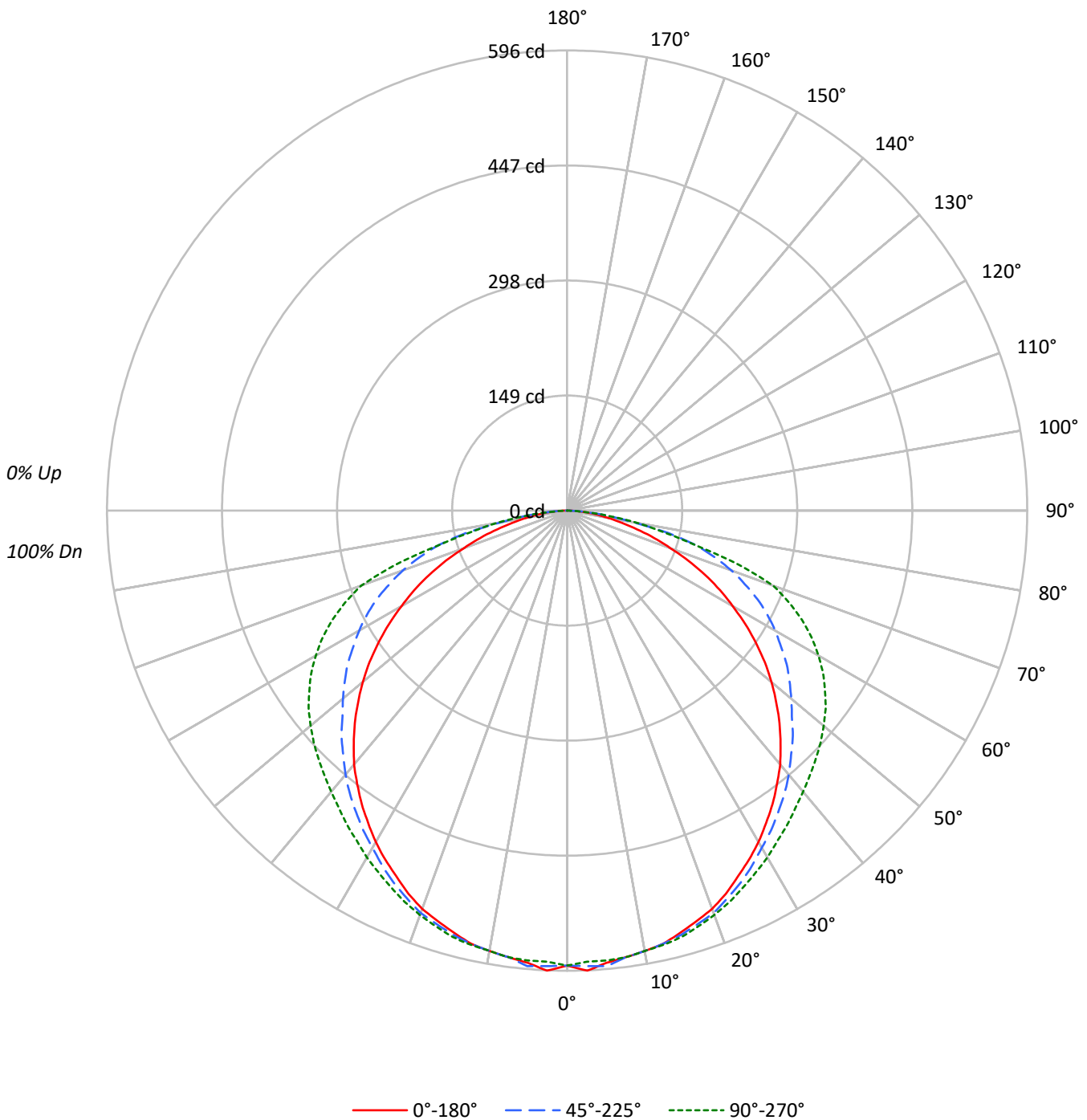
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1586	1586	1586
5°	1588	1599	1580
10°	1582	1582	1582
15°	1577	1585	1593
20°	1572	1588	1597
25°	1553	1578	1600
30°	1540	1567	1611
35°	1524	1566	1633
40°	1508	1569	1670
45°	1480	1573	1732
50°	1447	1586	1815
55°	1399	1629	1913
60°	1334	1675	2024
65°	1257	1734	2138
70°	1122	1780	2233
75°	973	1782	1768
80°	826	1317	1429
85°	710	889	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	3.0
10°-20°	160.7	8.7
20°-30°	244.8	13.2
30°-40°	299.6	16.1
40°-50°	322.3	17.4
50°-60°	312.2	16.8
60°-70°	264.5	14.3
70°-80°	159.9	8.6
80°-90°	35.1	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°	461.4	24.9
0°-40°	761.0	41.0
0°-60°	1395.5	75.2
0°-90°	1855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	588	588	592	589	585	56
15°	566	568	569	570	572	160
25°	523	526	532	536	539	241
35°	464	467	477	490	497	290
45°	389	396	413	439	455	300
55°	298	311	347	388	408	266
65°	197	219	272	316	336	194
75°	94	127	171	174	170	101
85°	23	27	29	27	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	589.2	589.2	589.2	589.2	589.2
2.5°	596.4	595.0	590.6	587.8	584.9
5°	587.8	587.8	592.1	589.2	584.9
7.5°	583.4	583.4	583.4	590.6	583.4
10°	579.1	580.6	579.1	584.9	579.1
12.5°	574.8	574.8	574.8	576.2	576.2
15°	566.1	567.6	569.0	570.5	571.9
17.5°	557.5	558.9	561.8	563.3	564.7
20°	548.9	550.3	554.6	554.6	557.5
22.5°	537.3	537.3	543.1	544.5	548.9
25°	522.9	525.8	531.6	535.9	538.8
27.5°	510.0	512.8	518.6	524.4	528.7
30°	495.6	498.4	504.2	512.8	518.6
32.5°	479.7	482.6	491.2	501.3	507.1
35°	463.9	466.7	476.8	489.8	497.0
37.5°	446.6	450.9	462.4	476.8	485.5
40°	429.3	433.6	446.6	462.4	475.4
42.5°	409.1	414.9	429.3	450.9	465.3
45°	389.0	396.2	413.4	439.4	455.2
47.5°	367.3	374.6	394.7	427.9	445.1
50°	345.7	354.4	378.9	414.9	433.6
52.5°	322.7	331.3	363.0	401.9	422.1
55°	298.2	311.2	347.2	387.5	407.7
57.5°	273.7	288.1	328.5	371.7	393.3
60°	247.8	265.1	311.2	354.4	376.0
62.5°	223.3	242.0	292.4	335.7	357.3
65°	197.4	219.0	272.3	315.5	335.7
67.5°	170.0	197.4	249.2	291.0	311.2
70°	142.6	174.3	226.2	265.1	283.8
72.5°	118.1	151.3	200.2	233.4	233.4
75°	93.6	126.8	171.4	174.3	170.0
77.5°	72.0	103.7	134.0	122.4	125.3
80°	53.3	79.2	85.0	89.3	92.2
82.5°	36.0	53.3	54.7	57.6	57.6
85°	23.0	27.4	28.8	27.4	25.9
87.5°	10.1	11.5	8.6	5.8	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)