

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: P260299

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260299
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-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1837.0 lumens
Efficiency: N/A
Efficacy: 86.3 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

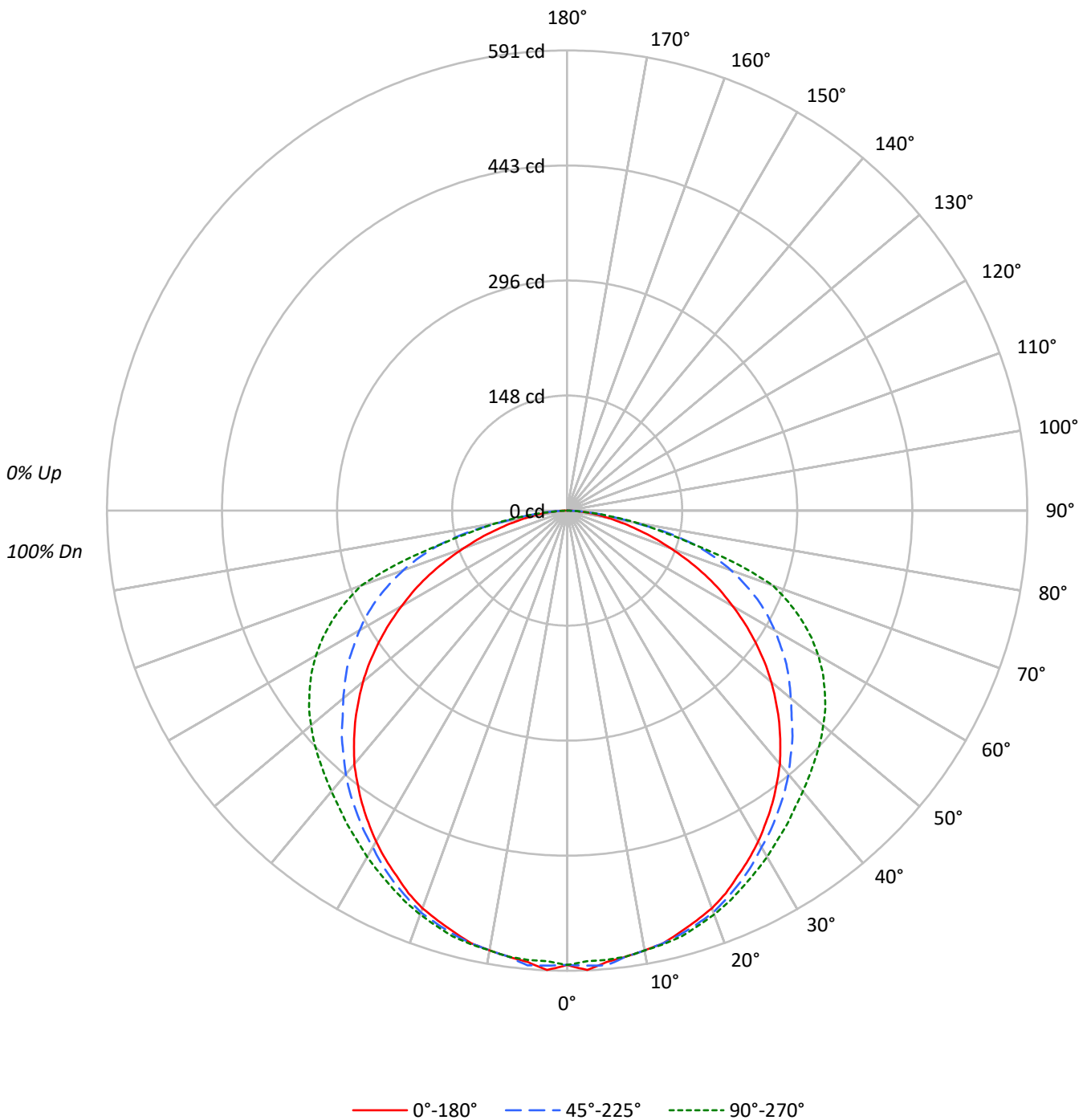
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1570	1570	1570
5°	1572	1584	1565
10°	1567	1567	1567
15°	1562	1570	1578
20°	1556	1573	1581
25°	1538	1563	1584
30°	1525	1551	1596
35°	1509	1551	1617
40°	1493	1553	1654
45°	1466	1558	1716
50°	1433	1571	1798
55°	1385	1613	1894
60°	1321	1658	2004
65°	1244	1717	2117
70°	1111	1762	2211
75°	964	1765	1750
80°	818	1305	1415
85°	704	880	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	3.0
10°-20°	159.1	8.7
20°-30°	242.5	13.2
30°-40°	296.7	16.1
40°-50°	319.2	17.4
50°-60°	309.2	16.8
60°-70°	261.9	14.3
70°-80°	158.3	8.6
80°-90°	34.8	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°	456.9	24.9
0°-40°	753.6	41.0
0°-60°	1382.0	75.2
0°-90°	1837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	582	582	586	584	579	55
15°	561	562	564	565	566	158
25°	518	521	526	531	534	239
35°	459	462	472	485	492	287
45°	385	392	409	435	451	297
55°	295	308	344	384	404	264
65°	195	217	270	312	332	192
75°	93	126	170	173	168	100
85°	23	27	28	27	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.5	583.5	583.5	583.5	583.5
2.5°	590.6	589.2	584.9	582.1	579.2
5°	582.1	582.1	586.3	583.5	579.2
7.5°	577.8	577.8	577.8	584.9	577.8
10°	573.5	574.9	573.5	579.2	573.5
12.5°	569.2	569.2	569.2	570.6	570.6
15°	560.7	562.1	563.5	564.9	566.4
17.5°	552.1	553.5	556.4	557.8	559.2
20°	543.5	545.0	549.2	549.2	552.1
22.5°	532.1	532.1	537.8	539.3	543.5
25°	517.9	520.7	526.4	530.7	533.5
27.5°	505.0	507.9	513.6	519.3	523.6
30°	490.8	493.6	499.3	507.9	513.6
32.5°	475.1	477.9	486.5	496.5	502.2
35°	459.4	462.2	472.2	485.0	492.2
37.5°	442.2	446.5	457.9	472.2	480.8
40°	425.1	429.4	442.2	457.9	470.8
42.5°	405.2	410.9	425.1	446.5	460.8
45°	385.2	392.3	409.4	435.1	450.8
47.5°	363.8	370.9	390.9	423.7	440.8
50°	342.4	350.9	375.2	410.9	429.4
52.5°	319.6	328.1	359.5	398.0	418.0
55°	295.3	308.1	343.8	383.8	403.7
57.5°	271.1	285.3	325.3	368.1	389.5
60°	245.4	262.5	308.1	350.9	372.3
62.5°	221.1	239.7	289.6	332.4	353.8
65°	195.4	216.8	269.6	312.4	332.4
67.5°	168.3	195.4	246.8	288.2	308.1
70°	141.2	172.6	224.0	262.5	281.0
72.5°	117.0	149.8	198.3	231.1	231.1
75°	92.7	125.5	169.8	172.6	168.3
77.5°	71.3	102.7	132.7	121.3	124.1
80°	52.8	78.5	84.2	88.4	91.3
82.5°	35.7	52.8	54.2	57.1	57.1
85°	22.8	27.1	28.5	27.1	25.7
87.5°	10.0	11.4	8.6	5.7	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)