

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: P260229

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260229
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-L83050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

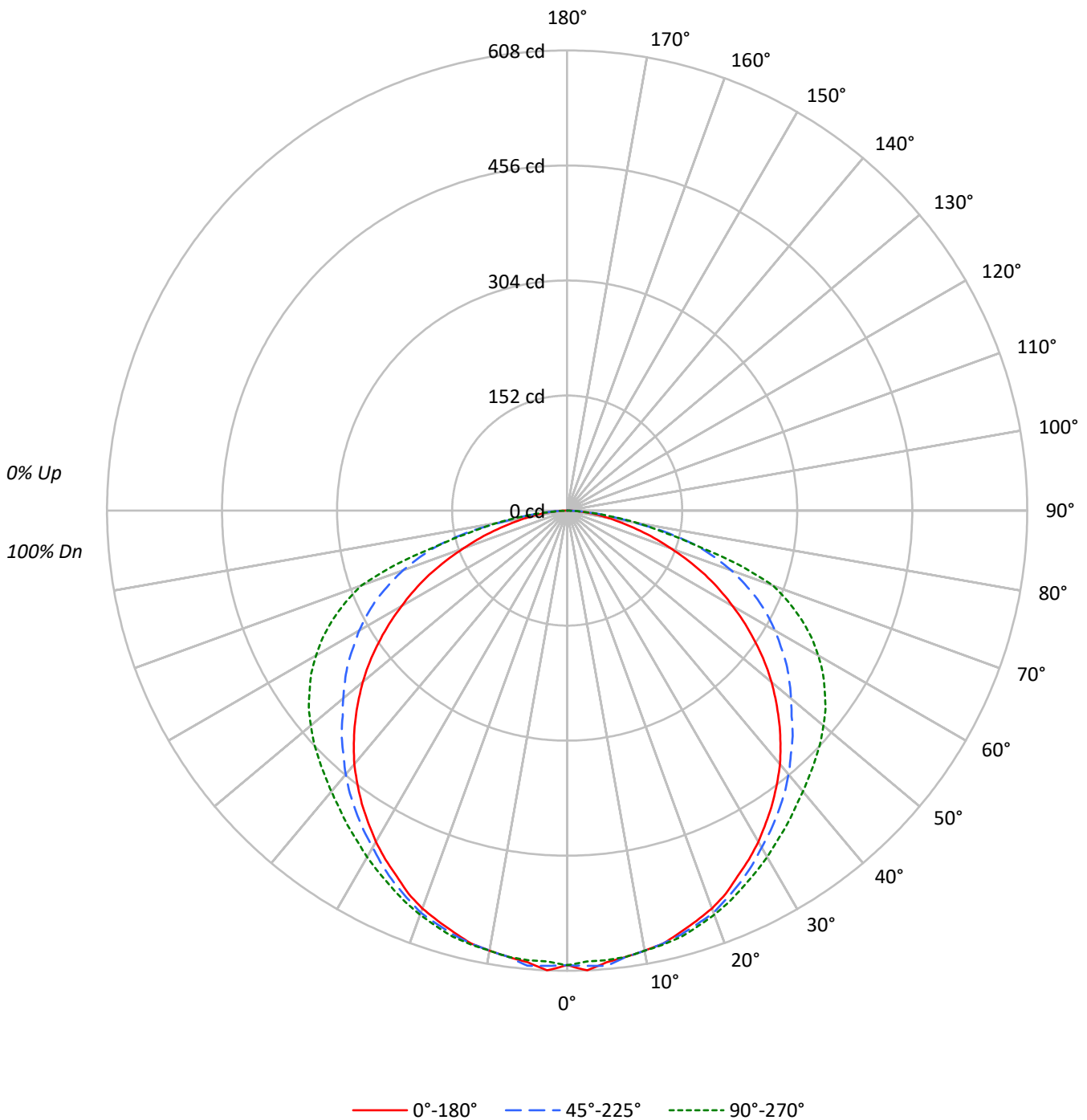
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1616	1616	1616
5°	1619	1630	1610
10°	1613	1613	1613
15°	1608	1616	1624
20°	1602	1619	1627
25°	1583	1609	1631
30°	1570	1597	1643
35°	1554	1597	1664
40°	1537	1599	1702
45°	1509	1604	1766
50°	1475	1617	1850
55°	1426	1660	1950
60°	1359	1707	2063
65°	1281	1768	2179
70°	1144	1814	2276
75°	993	1817	1802
80°	841	1342	1457
85°	726	908	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	3.0
10°-20°	163.8	8.7
20°-30°	249.6	13.2
30°-40°	305.4	16.1
40°-50°	328.6	17.4
50°-60°	318.3	16.8
60°-70°	269.6	14.3
70°-80°	163.0	8.6
80°-90°	35.8	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°	470.4	24.9
0°-40°	775.8	41.0
0°-60°	1422.6	75.2
0°-90°	1891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	601	601	601	601	601	
5°	599	599	604	601	596	57
15°	577	579	580	582	583	163
25°	533	536	542	546	549	246
35°	473	476	486	499	507	296
45°	396	404	422	448	464	306
55°	304	317	354	395	416	272
65°	201	223	278	322	342	198
75°	96	129	175	178	173	103
85°	24	28	29	28	26	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	600.6	600.6	600.6	600.6	600.6
2.5°	608.0	606.5	602.1	599.2	596.2
5°	599.2	599.2	603.6	600.6	596.2
7.5°	594.8	594.8	594.8	602.1	594.8
10°	590.4	591.8	590.4	596.2	590.4
12.5°	585.9	585.9	585.9	587.4	587.4
15°	577.1	578.6	580.1	581.5	583.0
17.5°	568.3	569.8	572.7	574.2	575.7
20°	559.5	561.0	565.4	565.4	568.3
22.5°	547.8	547.8	553.6	555.1	559.5
25°	533.1	536.0	541.9	546.3	549.2
27.5°	519.9	522.8	528.7	534.5	539.0
30°	505.2	508.1	514.0	522.8	528.7
32.5°	489.0	492.0	500.8	511.1	516.9
35°	472.9	475.8	486.1	499.3	506.6
37.5°	455.2	459.7	471.4	486.1	494.9
40°	437.6	442.0	455.2	471.4	484.6
42.5°	417.1	422.9	437.6	459.7	474.3
45°	396.5	403.8	421.5	447.9	464.1
47.5°	374.5	381.8	402.4	436.2	453.8
50°	352.4	361.3	386.2	422.9	442.0
52.5°	329.0	337.8	370.1	409.7	430.3
55°	304.0	317.2	353.9	395.0	415.6
57.5°	279.0	293.7	334.8	378.9	400.9
60°	252.6	270.2	317.2	361.3	383.3
62.5°	227.6	246.7	298.1	342.2	364.2
65°	201.2	223.2	277.6	321.6	342.2
67.5°	173.3	201.2	254.1	296.6	317.2
70°	145.4	177.7	230.6	270.2	289.3
72.5°	120.4	154.2	204.1	237.9	237.9
75°	95.5	129.2	174.8	177.7	173.3
77.5°	73.4	105.7	136.6	124.8	127.8
80°	54.3	80.8	86.6	91.0	94.0
82.5°	36.7	54.3	55.8	58.7	58.7
85°	23.5	27.9	29.4	27.9	26.4
87.5°	10.3	11.7	8.8	5.9	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)