

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: P260366

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260366
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-LD5-39-SQP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1932.0 lumens
Efficiency: N/A
Efficacy: 64.3 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

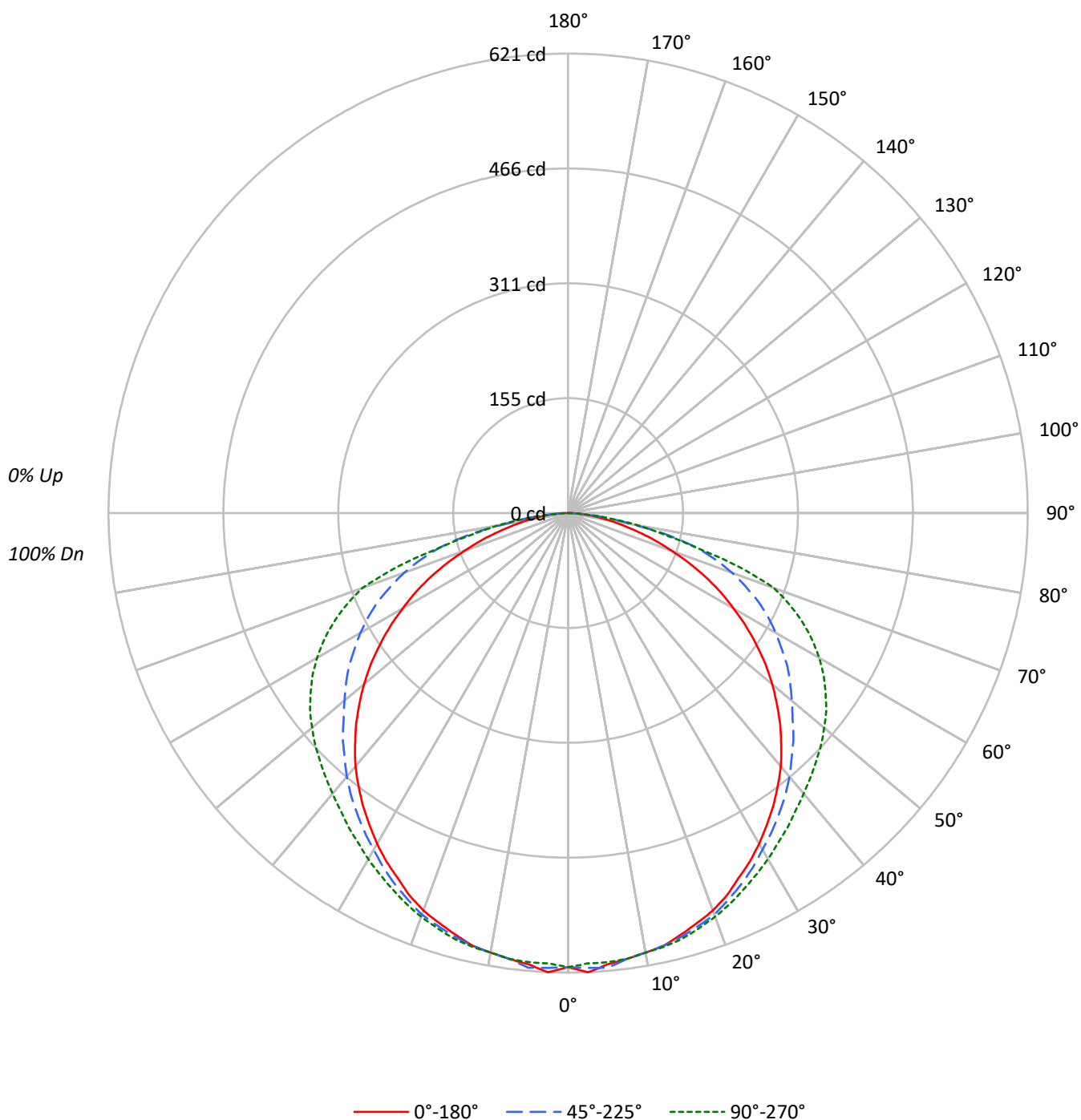
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1651	1651	1651
5°	1654	1666	1646
10°	1648	1648	1648
15°	1643	1651	1660
20°	1637	1654	1663
25°	1617	1644	1666
30°	1604	1632	1678
35°	1587	1631	1700
40°	1571	1634	1739
45°	1542	1639	1804
50°	1508	1652	1891
55°	1457	1696	1992
60°	1389	1744	2108
65°	1309	1806	2226
70°	1168	1854	2326
75°	1014	1856	1840
80°	860	1371	1488
85°	741	926	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	3.0
10°-20°	167.3	8.7
20°-30°	255.0	13.2
30°-40°	312.0	16.1
40°-50°	335.7	17.4
50°-60°	325.2	16.8
60°-70°	275.5	14.3
70°-80°	166.5	8.6
80°-90°	36.6	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°	480.6	24.9
0°-40°	792.5	41.0
0°-60°	1453.4	75.2
0°-90°	1932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	612	612	617	614	609	58
15°	590	591	593	594	596	167
25°	545	548	554	558	561	251
35°	483	486	497	510	518	302
45°	405	413	431	458	474	312
55°	311	324	362	404	425	277
65°	206	228	284	329	350	202
75°	98	132	178	182	177	105
85°	24	28	30	28	27	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.7	613.7	613.7	613.7	613.7
2.5°	621.2	619.7	615.2	612.2	609.2
5°	612.2	612.2	616.7	613.7	609.2
7.5°	607.7	607.7	607.7	615.2	607.7
10°	603.2	604.7	603.2	609.2	603.2
12.5°	598.7	598.7	598.7	600.2	600.2
15°	589.6	591.1	592.6	594.2	595.7
17.5°	580.6	582.1	585.1	586.6	588.1
20°	571.6	573.1	577.6	577.6	580.6
22.5°	559.6	559.6	565.6	567.1	571.6
25°	544.6	547.6	553.6	558.1	561.1
27.5°	531.1	534.1	540.1	546.1	550.6
30°	516.1	519.1	525.1	534.1	540.1
32.5°	499.6	502.6	511.6	522.1	528.1
35°	483.1	486.1	496.6	510.1	517.6
37.5°	465.1	469.6	481.6	496.6	505.6
40°	447.1	451.6	465.1	481.6	495.1
42.5°	426.1	432.1	447.1	469.6	484.6
45°	405.1	412.6	430.6	457.6	474.1
47.5°	382.6	390.1	411.1	445.6	463.6
50°	360.1	369.1	394.6	432.1	451.6
52.5°	336.1	345.1	378.1	418.6	439.6
55°	310.6	324.1	361.6	403.6	424.6
57.5°	285.1	300.1	342.1	387.1	409.6
60°	258.1	276.1	324.1	369.1	391.6
62.5°	232.6	252.1	304.6	349.6	372.1
65°	205.6	228.1	283.6	328.6	349.6
67.5°	177.0	205.6	259.6	303.1	324.1
70°	148.5	181.5	235.6	276.1	295.6
72.5°	123.0	157.5	208.6	243.1	243.1
75°	97.5	132.0	178.5	181.5	177.0
77.5°	75.0	108.0	139.5	127.5	130.5
80°	55.5	82.5	88.5	93.0	96.0
82.5°	37.5	55.5	57.0	60.0	60.0
85°	24.0	28.5	30.0	28.5	27.0
87.5°	10.5	12.0	9.0	6.0	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)