

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: P260354

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260354
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-L92765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1675.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

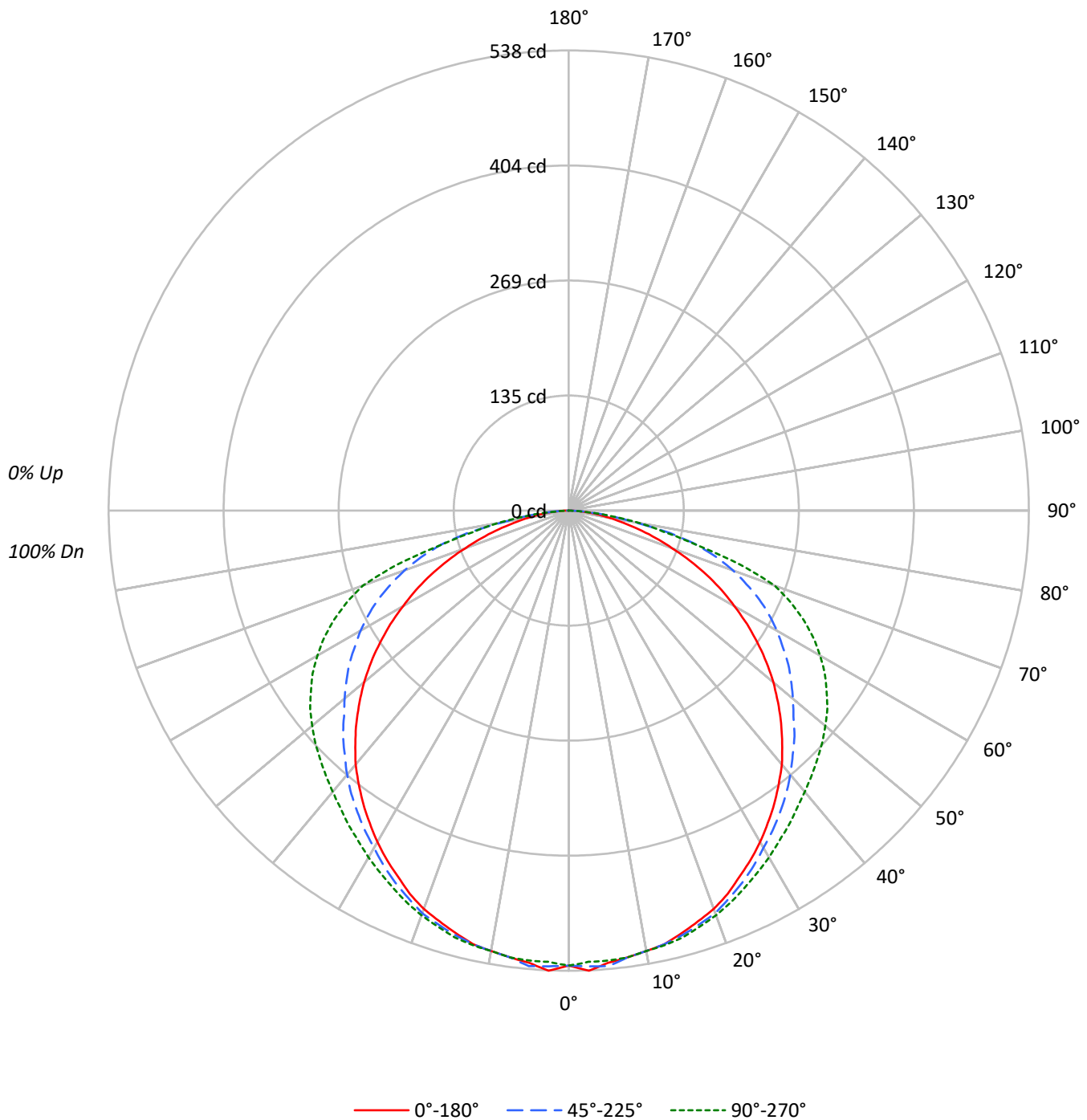
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1432	1432	1432
5°	1434	1444	1427
10°	1429	1429	1429
15°	1424	1431	1439
20°	1419	1434	1442
25°	1402	1425	1444
30°	1391	1415	1455
35°	1376	1415	1474
40°	1362	1416	1508
45°	1337	1421	1564
50°	1307	1432	1639
55°	1263	1471	1727
60°	1204	1512	1827
65°	1135	1566	1930
70°	1013	1607	2017
75°	880	1609	1596
80°	745	1189	1291
85°	642	803	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	3.0
10°-20°	145.1	8.7
20°-30°	221.1	13.2
30°-40°	270.5	16.1
40°-50°	291.0	17.4
50°-60°	281.9	16.8
60°-70°	238.8	14.3
70°-80°	144.4	8.6
80°-90°	31.7	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°	416.6	24.9
0°-40°	687.2	41.0
0°-60°	1260.1	75.2
0°-90°	1675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	532	532	532	532	532	
5°	531	531	535	532	528	50
15°	511	512	514	515	516	144
25°	472	475	480	484	486	218
35°	419	422	431	442	449	262
45°	351	358	373	397	411	271
55°	269	281	314	350	368	241
65°	178	198	246	285	303	175
75°	85	114	155	157	154	91
85°	21	25	26	25	23	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	532.0	532.0	532.0	532.0	532.0
2.5°	538.5	537.2	533.3	530.7	528.1
5°	530.7	530.7	534.6	532.0	528.1
7.5°	526.8	526.8	526.8	533.3	526.8
10°	522.9	524.2	522.9	528.1	522.9
12.5°	519.0	519.0	519.0	520.3	520.3
15°	511.2	512.5	513.8	515.1	516.4
17.5°	503.4	504.7	507.3	508.6	509.9
20°	495.6	496.9	500.8	500.8	503.4
22.5°	485.2	485.2	490.4	491.7	495.6
25°	472.2	474.8	480.0	483.9	486.5
27.5°	460.5	463.1	468.3	473.5	477.4
30°	447.5	450.1	455.3	463.1	468.3
32.5°	433.2	435.8	443.6	452.7	457.9
35°	418.9	421.5	430.6	442.3	448.8
37.5°	403.2	407.1	417.6	430.6	438.4
40°	387.6	391.5	403.2	417.6	429.3
42.5°	369.4	374.6	387.6	407.1	420.2
45°	351.2	357.7	373.3	396.7	411.1
47.5°	331.7	338.2	356.4	386.3	401.9
50°	312.2	320.0	342.1	374.6	391.5
52.5°	291.4	299.2	327.8	362.9	381.1
55°	269.3	281.0	313.5	349.9	368.1
57.5°	247.2	260.2	296.6	335.6	355.1
60°	223.7	239.3	281.0	320.0	339.5
62.5°	201.6	218.5	264.1	303.1	322.6
65°	178.2	197.7	245.9	284.9	303.1
67.5°	153.5	178.2	225.0	262.8	281.0
70°	128.8	157.4	204.2	239.3	256.3
72.5°	106.7	136.6	180.8	210.7	210.7
75°	84.6	114.5	154.8	157.4	153.5
77.5°	65.0	93.7	121.0	110.6	113.2
80°	48.1	71.5	76.7	80.6	83.3
82.5°	32.5	48.1	49.4	52.0	52.0
85°	20.8	24.7	26.0	24.7	23.4
87.5°	9.1	10.4	7.8	5.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)