

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: P260259

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260259
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-L93050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1666.0 lumens
Efficiency: N/A
Efficacy: 76.8 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

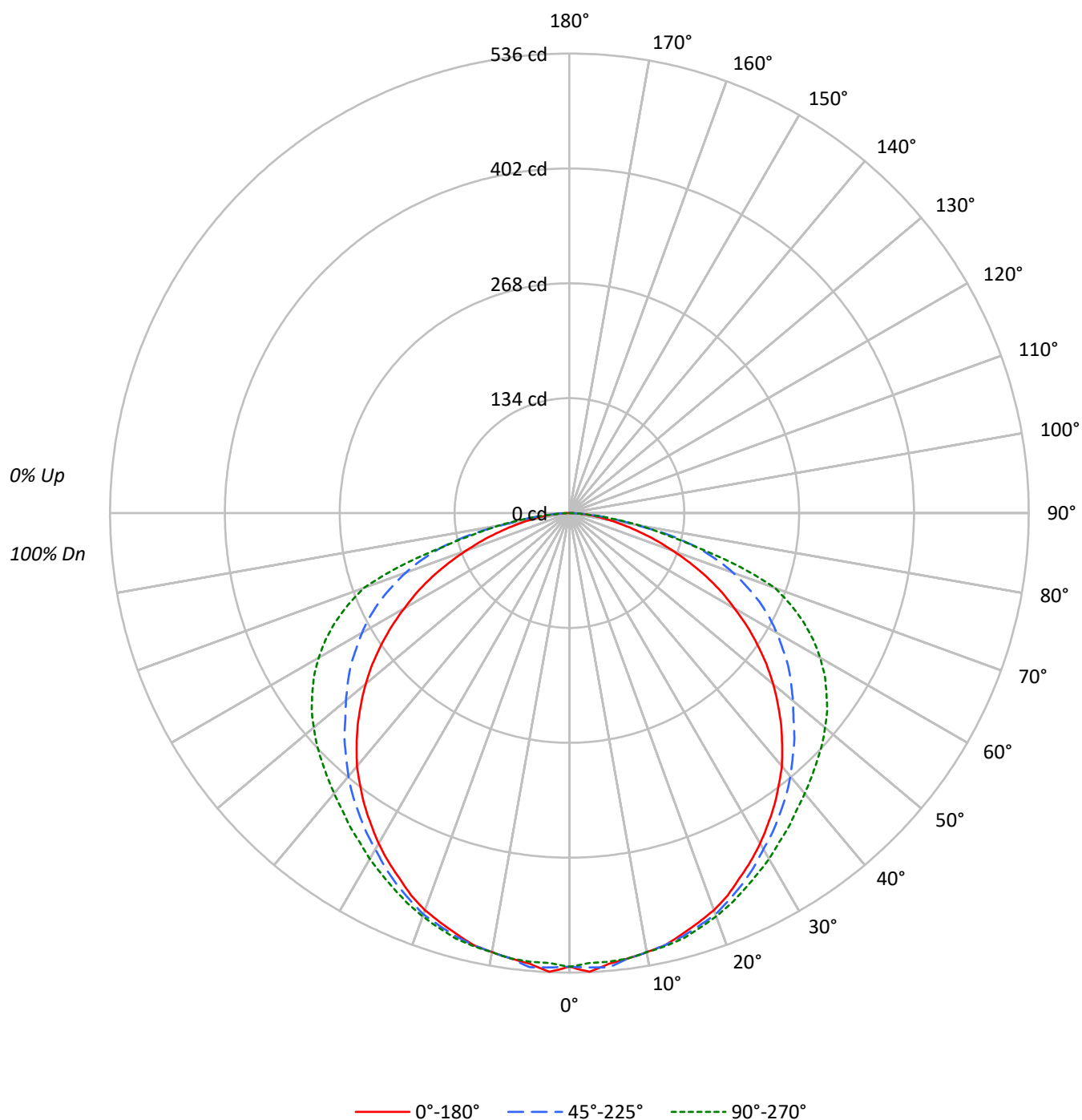
Input Watts (W): 21.706944
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1424	1424	1424
5°	1426	1437	1419
10°	1421	1421	1421
15°	1417	1424	1431
20°	1412	1426	1434
25°	1395	1417	1437
30°	1383	1407	1447
35°	1369	1407	1466
40°	1355	1409	1500
45°	1329	1413	1556
50°	1300	1425	1630
55°	1256	1463	1718
60°	1197	1504	1817
65°	1129	1557	1920
70°	1008	1598	2006
75°	874	1601	1588
80°	742	1182	1283
85°	639	800	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	3.0
10°-20°	144.3	8.7
20°-30°	219.9	13.2
30°-40°	269.0	16.1
40°-50°	289.5	17.4
50°-60°	280.4	16.8
60°-70°	237.5	14.3
70°-80°	143.6	8.6
80°-90°	31.6	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°	414.4	24.9
0°-40°	683.4	41.0
0°-60°	1253.3	75.2
0°-90°	1666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	529	529	529	529	529	
5°	528	528	532	529	525	50
15°	508	510	511	512	514	144
25°	470	472	477	481	484	217
35°	417	419	428	440	446	261
45°	349	356	371	395	409	269
55°	268	280	312	348	366	239
65°	177	197	244	283	302	175
75°	84	114	154	157	153	90
85°	21	25	26	25	23	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.2	529.2	529.2	529.2	529.2
2.5°	535.6	534.3	530.5	527.9	525.3
5°	527.9	527.9	531.8	529.2	525.3
7.5°	524.0	524.0	524.0	530.5	524.0
10°	520.1	521.4	520.1	525.3	520.1
12.5°	516.2	516.2	516.2	517.5	517.5
15°	508.5	509.8	511.1	512.3	513.6
17.5°	500.7	502.0	504.6	505.9	507.2
20°	492.9	494.2	498.1	498.1	500.7
22.5°	482.6	482.6	487.8	489.1	492.9
25°	469.7	472.2	477.4	481.3	483.9
27.5°	458.0	460.6	465.8	470.9	474.8
30°	445.1	447.7	452.8	460.6	465.8
32.5°	430.8	433.4	441.2	450.2	455.4
35°	416.6	419.2	428.2	439.9	446.4
37.5°	401.1	405.0	415.3	428.2	436.0
40°	385.6	389.4	401.1	415.3	427.0
42.5°	367.4	372.6	385.6	405.0	417.9
45°	349.3	355.8	371.3	394.6	408.8
47.5°	329.9	336.4	354.5	384.3	399.8
50°	310.5	318.3	340.3	372.6	389.4
52.5°	289.8	297.6	326.0	361.0	379.1
55°	267.8	279.5	311.8	348.0	366.1
57.5°	245.8	258.8	295.0	333.8	353.2
60°	222.5	238.1	279.5	318.3	337.7
62.5°	200.5	217.4	262.6	301.5	320.9
65°	177.3	196.7	244.5	283.3	301.5
67.5°	152.7	177.3	223.8	261.3	279.5
70°	128.1	156.6	203.1	238.1	254.9
72.5°	106.1	135.8	179.8	209.6	209.6
75°	84.1	113.9	154.0	156.6	152.7
77.5°	64.7	93.2	120.3	110.0	112.6
80°	47.9	71.2	76.3	80.2	82.8
82.5°	32.3	47.9	49.2	51.8	51.8
85°	20.7	24.6	25.9	24.6	23.3
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)