

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: P260356

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260356
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1693.0 lumens
Efficiency: N/A
Efficacy: 77.8 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

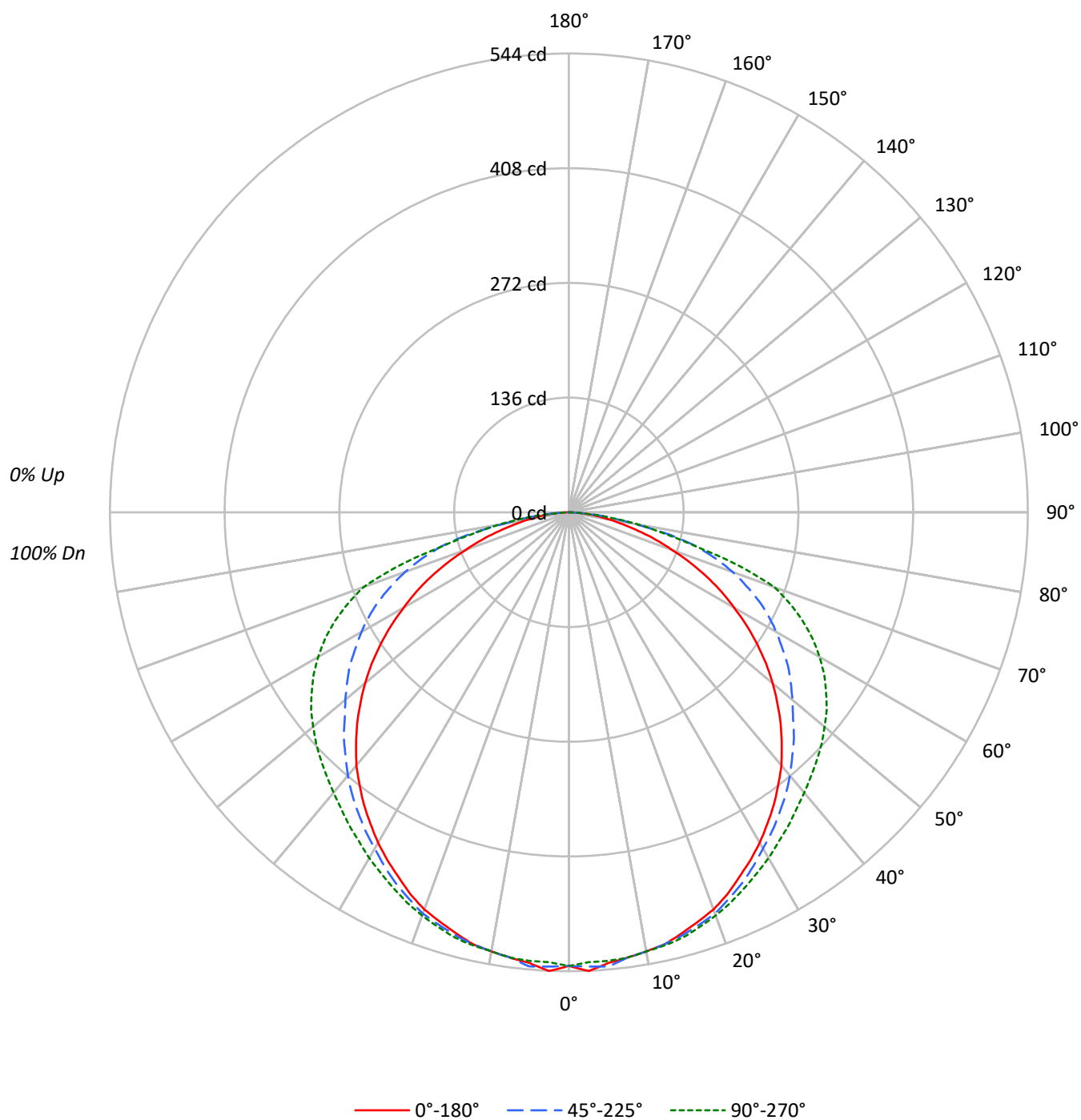
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1447	1447	1447
5°	1449	1460	1442
10°	1444	1444	1444
15°	1439	1447	1454
20°	1434	1450	1457
25°	1417	1441	1460
30°	1405	1430	1471
35°	1391	1430	1490
40°	1376	1432	1524
45°	1351	1436	1581
50°	1321	1448	1657
55°	1277	1487	1746
60°	1217	1528	1847
65°	1147	1582	1950
70°	1024	1624	2038
75°	889	1627	1613
80°	753	1203	1303
85°	648	812	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	3.0
10°-20°	146.6	8.7
20°-30°	223.4	13.2
30°-40°	273.4	16.1
40°-50°	294.2	17.4
50°-60°	285.0	16.8
60°-70°	241.4	14.3
70°-80°	145.9	8.6
80°-90°	32.1	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°	421.1	24.9
0°-40°	694.5	41.0
0°-60°	1273.6	75.2
0°-90°	1693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	536	536	540	538	534	51
15°	517	518	519	521	522	146
25°	477	480	485	489	492	220
35°	423	426	435	447	454	265
45°	355	362	377	401	416	274
55°	272	284	317	354	372	243
65°	180	200	248	288	306	177
75°	86	116	156	159	155	92
85°	21	25	26	25	24	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	537.7	537.7	537.7	537.7	537.7
2.5°	544.3	543.0	539.1	536.4	533.8
5°	536.4	536.4	540.4	537.7	533.8
7.5°	532.5	532.5	532.5	539.1	532.5
10°	528.5	529.9	528.5	533.8	528.5
12.5°	524.6	524.6	524.6	525.9	525.9
15°	516.7	518.0	519.3	520.7	522.0
17.5°	508.8	510.1	512.8	514.1	515.4
20°	500.9	502.2	506.2	506.2	508.8
22.5°	490.4	490.4	495.7	497.0	500.9
25°	477.3	479.9	485.2	489.1	491.7
27.5°	465.4	468.1	473.3	478.6	482.5
30°	452.3	454.9	460.2	468.1	473.3
32.5°	437.8	440.4	448.3	457.5	462.8
35°	423.4	426.0	435.2	447.0	453.6
37.5°	407.6	411.5	422.0	435.2	443.1
40°	391.8	395.7	407.6	422.0	433.9
42.5°	373.4	378.7	391.8	411.5	424.7
45°	355.0	361.6	377.3	401.0	415.5
47.5°	335.3	341.8	360.2	390.5	406.3
50°	315.5	323.4	345.8	378.7	395.7
52.5°	294.5	302.4	331.3	366.8	385.2
55°	272.2	284.0	316.9	353.7	372.1
57.5°	249.8	263.0	299.8	339.2	358.9
60°	226.1	241.9	284.0	323.4	343.2
62.5°	203.8	220.9	266.9	306.3	326.1
65°	180.1	199.8	248.5	287.9	306.3
67.5°	155.1	180.1	227.5	265.6	284.0
70°	130.2	159.1	206.4	241.9	259.0
72.5°	107.8	138.1	182.8	213.0	213.0
75°	85.5	115.7	156.5	159.1	155.1
77.5°	65.7	94.7	122.3	111.8	114.4
80°	48.6	72.3	77.6	81.5	84.1
82.5°	32.9	48.6	50.0	52.6	52.6
85°	21.0	25.0	26.3	25.0	23.7
87.5°	9.2	10.5	7.9	5.3	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)