

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: P260295

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260295
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-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1685.0 lumens
Efficiency: N/A
Efficacy: 81.6 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

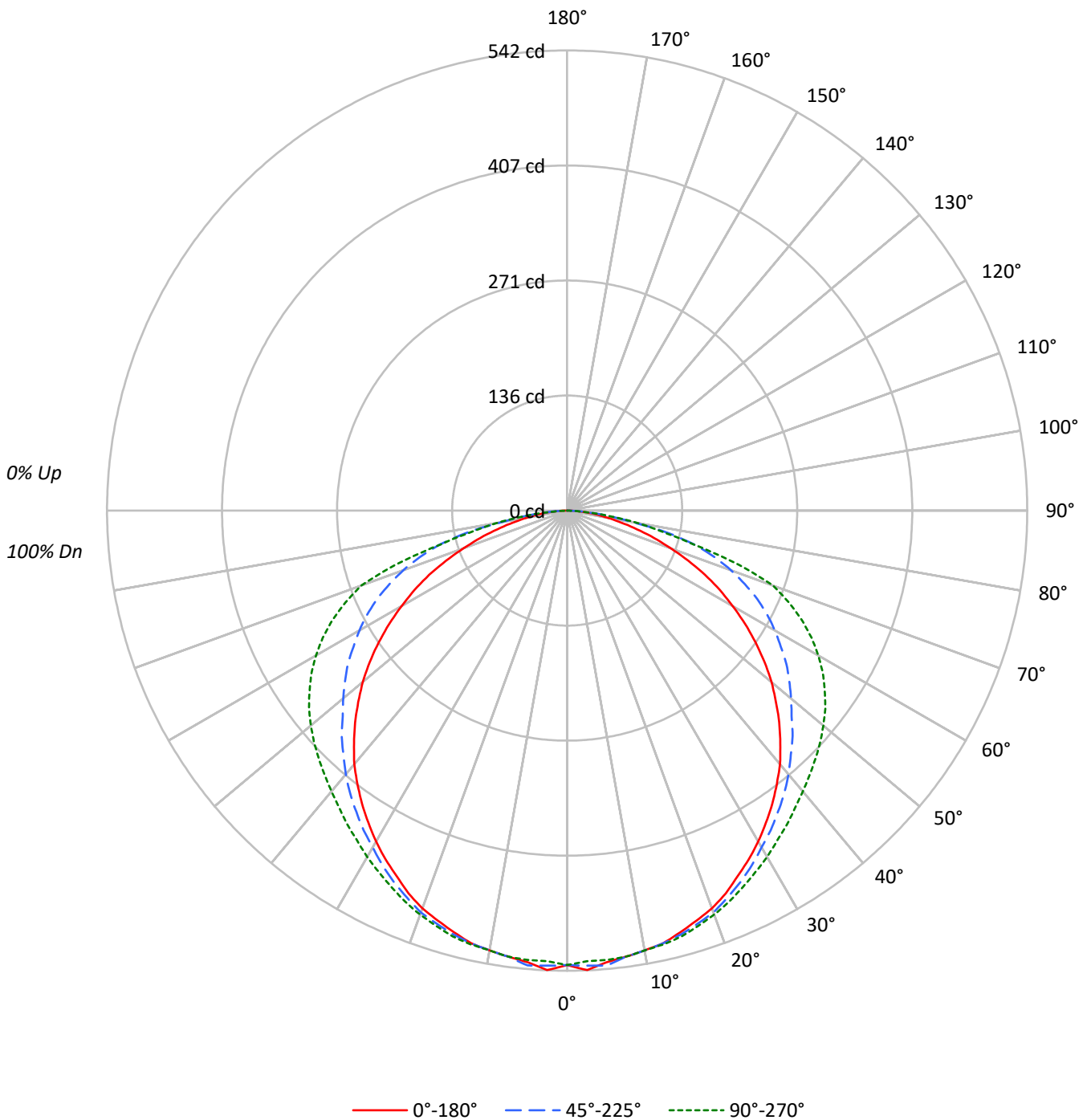
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1440	1440	1440
5°	1442	1453	1435
10°	1437	1437	1437
15°	1433	1440	1447
20°	1428	1443	1450
25°	1410	1434	1453
30°	1399	1423	1464
35°	1384	1423	1483
40°	1370	1425	1517
45°	1345	1429	1574
50°	1315	1441	1649
55°	1271	1480	1737
60°	1211	1521	1838
65°	1142	1575	1941
70°	1019	1616	2028
75°	885	1619	1605
80°	750	1196	1297
85°	645	809	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.0
10°-20°	145.9	8.7
20°-30°	222.4	13.2
30°-40°	272.1	16.1
40°-50°	292.8	17.4
50°-60°	283.6	16.8
60°-70°	240.2	14.3
70°-80°	145.2	8.6
80°-90°	31.9	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°	419.1	24.9
0°-40°	691.2	41.0
0°-60°	1267.6	75.2
0°-90°	1685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	535	535	535	535	535	
5°	534	534	538	535	531	51
15°	514	516	517	518	520	145
25°	475	478	483	487	489	219
35°	421	424	433	445	452	264
45°	353	360	376	399	414	272
55°	271	283	315	352	370	242
65°	179	199	247	287	305	177
75°	85	115	156	158	154	91
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°	535.2	535.2	535.2	535.2	535.2
2.5°	541.7	540.4	536.5	533.9	531.3
5°	533.9	533.9	537.8	535.2	531.3
7.5°	530.0	530.0	530.0	536.5	530.0
10°	526.0	527.3	526.0	531.3	526.0
12.5°	522.1	522.1	522.1	523.4	523.4
15°	514.3	515.6	516.9	518.2	519.5
17.5°	506.4	507.7	510.3	511.6	513.0
20°	498.6	499.9	503.8	503.8	506.4
22.5°	488.1	488.1	493.3	494.6	498.6
25°	475.0	477.6	482.9	486.8	489.4
27.5°	463.2	465.8	471.1	476.3	480.2
30°	450.1	452.8	458.0	465.8	471.1
32.5°	435.8	438.4	446.2	455.4	460.6
35°	421.4	424.0	433.1	444.9	451.5
37.5°	405.7	409.6	420.0	433.1	441.0
40°	390.0	393.9	405.7	420.0	431.8
42.5°	371.6	376.9	390.0	409.6	422.7
45°	353.3	359.9	375.6	399.1	413.5
47.5°	333.7	340.2	358.5	388.6	404.3
50°	314.1	321.9	344.2	376.9	393.9
52.5°	293.1	301.0	329.8	365.1	383.4
55°	270.9	282.6	315.4	352.0	370.3
57.5°	248.6	261.7	298.4	337.6	357.2
60°	225.1	240.8	282.6	321.9	341.5
62.5°	202.8	219.8	265.6	304.9	324.5
65°	179.3	198.9	247.3	286.6	304.9
67.5°	154.4	179.3	226.4	264.3	282.6
70°	129.5	158.3	205.4	240.8	257.8
72.5°	107.3	137.4	181.9	212.0	212.0
75°	85.1	115.2	155.7	158.3	154.4
77.5°	65.4	94.2	121.7	111.2	113.8
80°	48.4	72.0	77.2	81.1	83.7
82.5°	32.7	48.4	49.7	52.3	52.3
85°	20.9	24.9	26.2	24.9	23.6
87.5°	9.2	10.5	7.9	5.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)