

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: P260294

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260294
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-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1637.0 lumens
Efficiency: N/A
Efficacy: 78.6 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

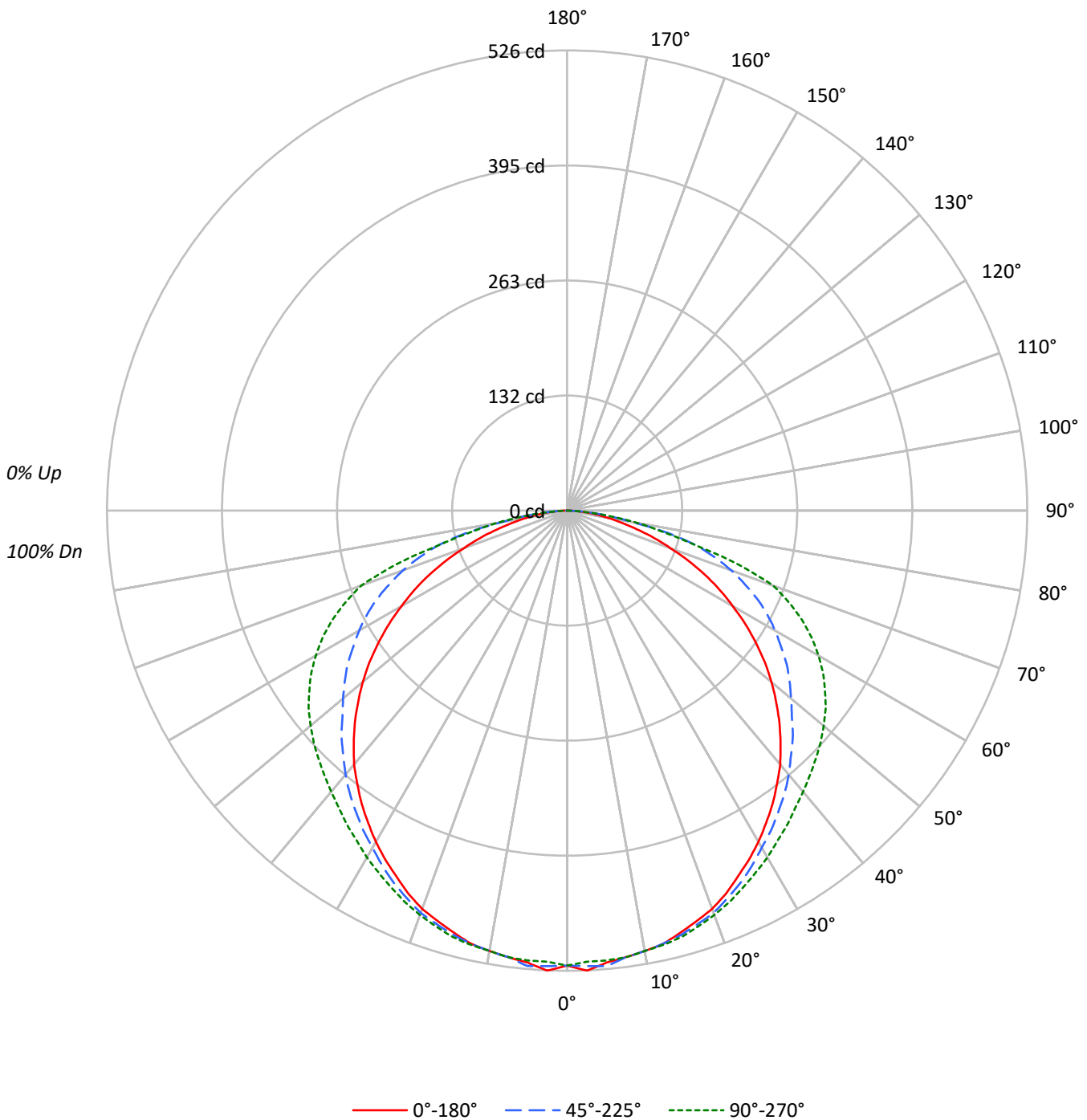
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1399	1399	1399
5°	1401	1411	1394
10°	1397	1397	1397
15°	1392	1399	1406
20°	1387	1401	1409
25°	1370	1393	1412
30°	1359	1382	1422
35°	1345	1382	1441
40°	1331	1384	1474
45°	1306	1389	1529
50°	1277	1400	1602
55°	1235	1437	1688
60°	1177	1478	1786
65°	1109	1530	1886
70°	991	1570	1970
75°	859	1573	1560
80°	728	1162	1261
85°	627	784	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	3.0
10°-20°	141.8	8.7
20°-30°	216.1	13.2
30°-40°	264.4	16.1
40°-50°	284.4	17.4
50°-60°	275.5	16.8
60°-70°	233.4	14.3
70°-80°	141.1	8.6
80°-90°	31.0	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°	407.2	24.9
0°-40°	671.6	41.0
0°-60°	1231.5	75.2
0°-90°	1637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	519	519	522	520	516	49
15°	500	501	502	503	505	141
25°	462	464	469	473	476	213
35°	409	412	421	432	439	256
45°	343	350	365	388	402	265
55°	263	275	306	342	360	235
65°	174	193	240	278	296	172
75°	83	112	151	154	150	89
85°	20	24	25	24	23	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	520.0	520.0	520.0	520.0	520.0
2.5°	526.3	525.0	521.2	518.7	516.1
5°	518.7	518.7	522.5	520.0	516.1
7.5°	514.9	514.9	514.9	521.2	514.9
10°	511.1	512.3	511.1	516.1	511.1
12.5°	507.2	507.2	507.2	508.5	508.5
15°	499.6	500.9	502.2	503.4	504.7
17.5°	492.0	493.3	495.8	497.1	498.3
20°	484.4	485.6	489.4	489.4	492.0
22.5°	474.2	474.2	479.3	480.5	484.4
25°	461.5	464.0	469.1	472.9	475.5
27.5°	450.0	452.6	457.7	462.7	466.6
30°	437.3	439.9	444.9	452.6	457.7
32.5°	423.3	425.9	433.5	442.4	447.5
35°	409.4	411.9	420.8	432.2	438.6
37.5°	394.1	397.9	408.1	420.8	428.4
40°	378.8	382.7	394.1	408.1	419.5
42.5°	361.0	366.1	378.8	397.9	410.6
45°	343.2	349.6	364.9	387.7	401.7
47.5°	324.2	330.5	348.3	377.6	392.8
50°	305.1	312.7	334.3	366.1	382.7
52.5°	284.8	292.4	320.4	354.7	372.5
55°	263.2	274.6	306.4	342.0	359.8
57.5°	241.5	254.3	289.9	328.0	347.1
60°	218.7	233.9	274.6	312.7	331.8
62.5°	197.0	213.6	258.1	296.2	315.3
65°	174.2	193.2	240.3	278.4	296.2
67.5°	150.0	174.2	219.9	256.8	274.6
70°	125.9	153.8	199.6	233.9	250.4
72.5°	104.2	133.5	176.7	205.9	205.9
75°	82.6	111.9	151.3	153.8	150.0
77.5°	63.6	91.5	118.2	108.1	110.6
80°	47.0	69.9	75.0	78.8	81.4
82.5°	31.8	47.0	48.3	50.9	50.9
85°	20.3	24.2	25.4	24.2	22.9
87.5°	8.9	10.2	7.6	5.1	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)