

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: P277570

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1806.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

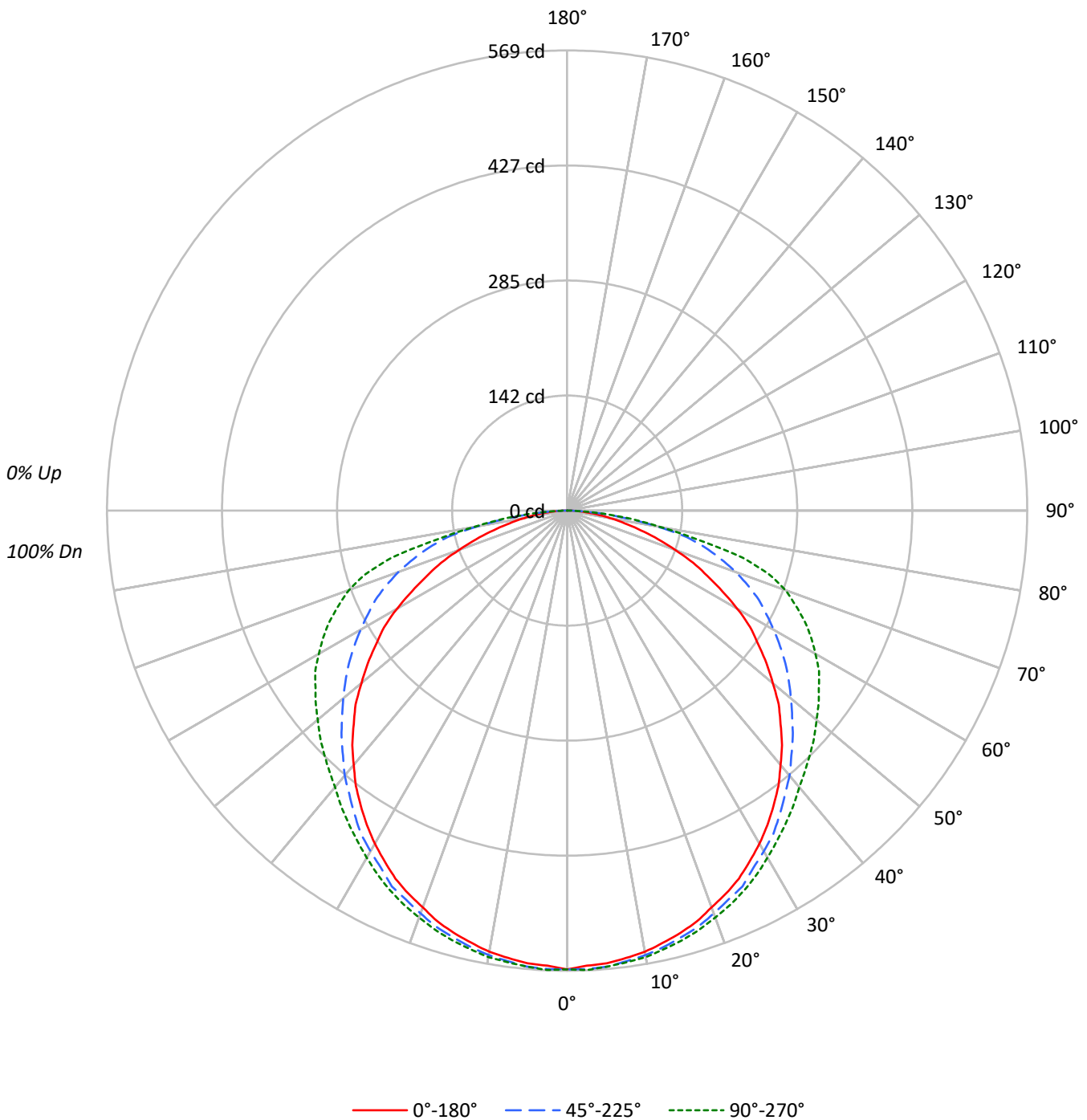
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1527	1527	1527
5°	1518	1529	1529
10°	1514	1525	1532
15°	1506	1521	1532
20°	1495	1518	1533
25°	1491	1523	1538
30°	1478	1511	1540
35°	1462	1506	1549
40°	1442	1503	1568
45°	1421	1502	1618
50°	1390	1513	1685
55°	1353	1546	1783
60°	1308	1587	1909
65°	1218	1666	2064
70°	1119	1746	2258
75°	980	1837	2334
80°	845	1750	1832
85°	738	1272	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	3.0
10°-20°	154.1	8.5
20°-30°	235.1	13.0
30°-40°	287.0	15.9
40°-50°	306.9	17.0
50°-60°	296.2	16.4
60°-70°	255.0	14.1
70°-80°	172.5	9.6
80°-90°	45.5	2.5
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°	442.8	24.5
0°-40°	729.8	40.4
0°-60°	1333.0	73.8
0°-90°	1806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	562	563	566	566	566	53
15°	541	542	546	549	550	153
25°	502	505	513	516	518	231
35°	445	449	458	468	472	278
45°	373	380	395	414	425	288
55°	288	298	330	363	380	258
65°	191	210	262	303	324	190
75°	94	125	177	213	224	101
85°	24	33	41	42	45	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	567.3	567.3	567.3	567.3	567.3
2.5°	563.3	564.6	567.3	567.3	568.6
5°	562.0	563.3	566.0	566.0	566.0
7.5°	558.0	559.3	562.0	563.3	563.3
10°	554.0	555.3	558.0	559.3	560.7
12.5°	547.4	548.7	552.7	555.3	555.3
15°	540.7	542.1	546.0	548.7	550.0
17.5°	532.8	535.4	539.4	542.1	543.4
20°	522.1	524.8	530.1	534.1	535.4
22.5°	512.8	515.5	520.8	524.8	527.4
25°	502.2	504.9	512.8	515.5	518.1
27.5°	488.9	491.6	498.2	503.5	507.5
30°	475.6	478.3	486.3	492.9	495.6
32.5°	461.0	465.0	474.3	479.6	483.6
35°	445.1	449.1	458.4	467.7	471.6
37.5°	429.1	433.1	442.4	454.4	459.7
40°	410.5	415.8	427.8	443.7	446.4
42.5°	393.3	399.9	410.5	429.1	435.8
45°	373.3	380.0	394.6	414.5	425.1
47.5°	354.7	361.4	377.3	401.2	414.5
50°	332.1	341.4	361.4	389.3	402.6
52.5°	310.9	318.9	345.4	376.0	391.9
55°	288.3	297.6	329.5	362.7	380.0
57.5°	268.4	276.3	312.2	349.4	369.3
60°	243.1	253.8	294.9	334.8	354.7
62.5°	216.6	232.5	277.7	318.9	340.1
65°	191.3	209.9	261.7	302.9	324.2
67.5°	168.7	188.7	241.8	285.6	305.6
70°	142.2	167.4	221.9	264.4	287.0
72.5°	118.2	146.1	199.3	241.8	261.7
75°	94.3	124.9	176.7	212.6	224.5
77.5°	73.1	102.3	151.5	162.1	163.4
80°	54.5	81.0	112.9	114.3	118.2
82.5°	37.2	57.1	73.1	79.7	81.0
85°	23.9	33.2	41.2	42.5	45.2
87.5°	10.6	12.0	14.6	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)