

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: P277572

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277572
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-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1849.0 lumens
Efficiency: N/A
Efficacy: 86.4 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

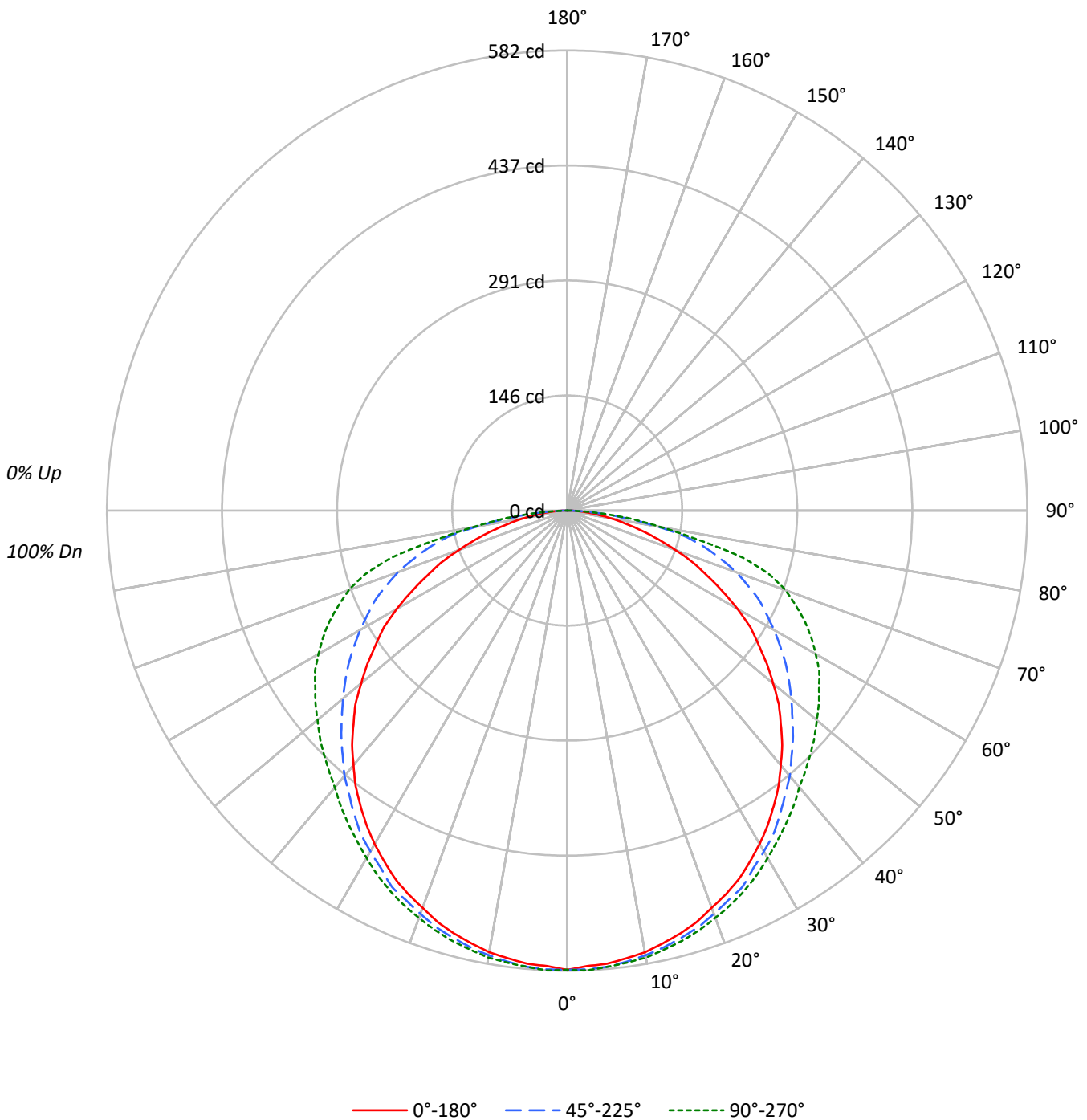
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1563	1563	1563
5°	1554	1565	1565
10°	1550	1561	1568
15°	1542	1557	1569
20°	1531	1554	1570
25°	1527	1559	1575
30°	1513	1547	1577
35°	1497	1542	1586
40°	1476	1539	1605
45°	1455	1537	1657
50°	1423	1549	1725
55°	1385	1582	1825
60°	1340	1625	1955
65°	1247	1706	2113
70°	1145	1788	2312
75°	1004	1881	2390
80°	865	1791	1877
85°	756	1303	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	3.0
10°-20°	157.7	8.5
20°-30°	240.7	13.0
30°-40°	293.9	15.9
40°-50°	314.2	17.0
50°-60°	303.3	16.4
60°-70°	261.1	14.1
70°-80°	176.6	9.6
80°-90°	46.6	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°	453.4	24.5
0°-40°	747.2	40.4
0°-60°	1364.7	73.8
0°-90°	1849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	575	577	579	579	579	55
15°	554	555	559	562	563	156
25°	514	517	525	528	530	237
35°	456	460	469	479	483	285
45°	382	389	404	424	435	295
55°	295	305	337	371	389	265
65°	196	215	268	310	332	195
75°	97	128	181	218	230	104
85°	24	34	42	44	46	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	580.8	580.8	580.8	580.8	580.8
2.5°	576.7	578.1	580.8	580.8	582.2
5°	575.4	576.7	579.4	579.4	579.4
7.5°	571.3	572.6	575.4	576.7	576.7
10°	567.2	568.6	571.3	572.6	574.0
12.5°	560.4	561.8	565.8	568.6	568.6
15°	553.6	555.0	559.0	561.8	563.1
17.5°	545.4	548.2	552.2	555.0	556.3
20°	534.6	537.3	542.7	546.8	548.2
22.5°	525.0	527.8	533.2	537.3	540.0
25°	514.2	516.9	525.0	527.8	530.5
27.5°	500.6	503.3	510.1	515.5	519.6
30°	486.9	489.7	497.8	504.6	507.4
32.5°	472.0	476.1	485.6	491.0	495.1
35°	455.7	459.7	469.3	478.8	482.9
37.5°	439.3	443.4	452.9	465.2	470.6
40°	420.3	425.7	438.0	454.3	457.0
42.5°	402.6	409.4	420.3	439.3	446.1
45°	382.2	389.0	404.0	424.4	435.3
47.5°	363.2	370.0	386.3	410.8	424.4
50°	340.0	349.6	370.0	398.5	412.1
52.5°	318.3	326.4	353.7	384.9	401.3
55°	295.2	304.7	337.3	371.3	389.0
57.5°	274.8	282.9	319.6	357.7	378.1
60°	248.9	259.8	302.0	342.8	363.2
62.5°	221.7	238.0	284.3	326.4	348.2
65°	195.9	214.9	268.0	310.1	331.9
67.5°	172.7	193.1	247.6	292.4	312.8
70°	145.5	171.4	227.2	270.7	293.8
72.5°	121.1	149.6	204.0	247.6	268.0
75°	96.6	127.9	180.9	217.6	229.9
77.5°	74.8	104.7	155.1	165.9	167.3
80°	55.8	83.0	115.6	117.0	121.1
82.5°	38.1	58.5	74.8	81.6	83.0
85°	24.5	34.0	42.2	43.5	46.2
87.5°	10.9	12.2	15.0	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)