

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: P277573

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277573
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-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1853.0 lumens
Efficiency: N/A
Efficacy: 86.6 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

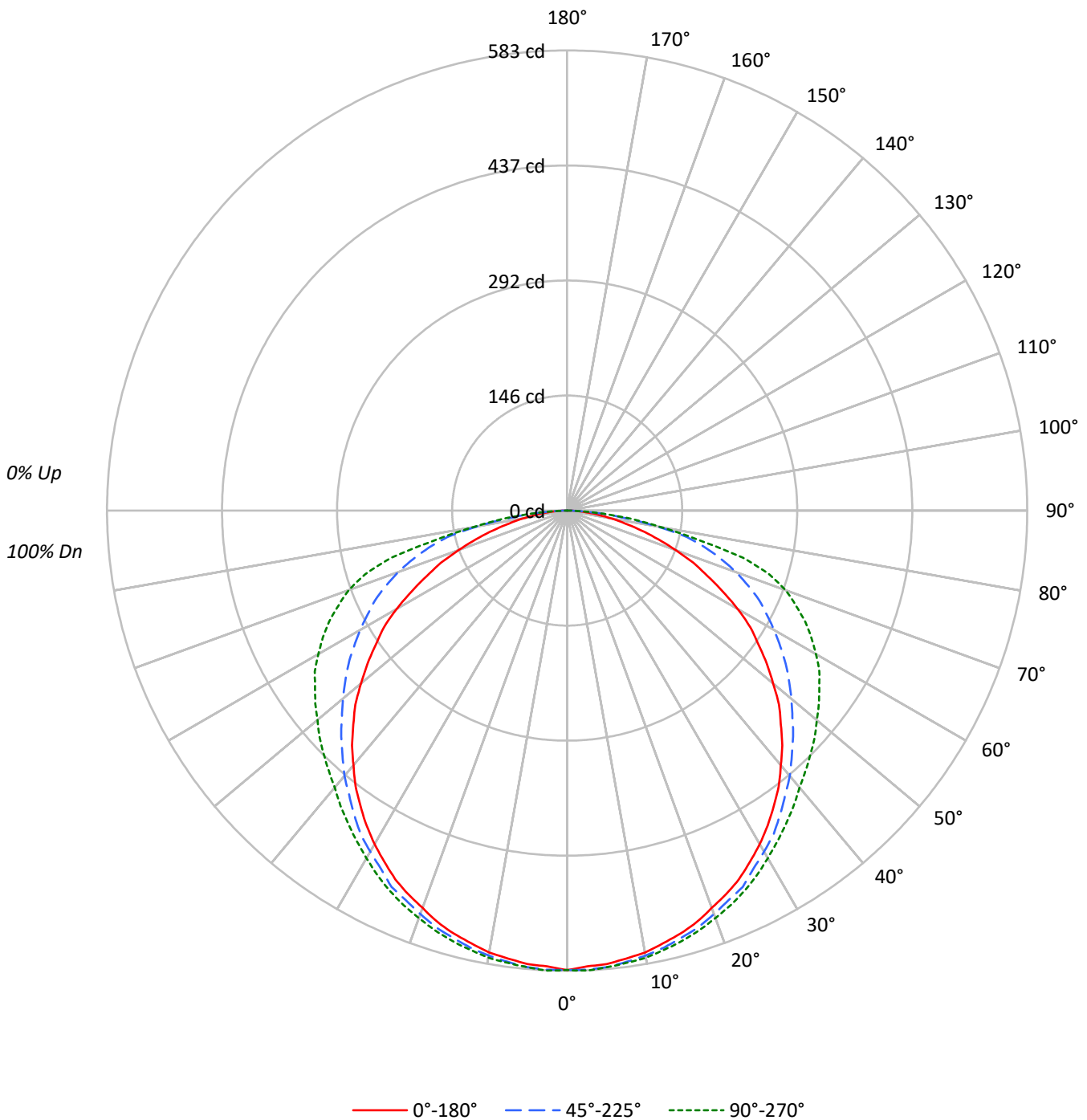
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1566	1566	1566
5°	1558	1569	1569
10°	1553	1564	1572
15°	1546	1561	1572
20°	1534	1558	1573
25°	1530	1562	1578
30°	1516	1550	1580
35°	1500	1545	1590
40°	1480	1542	1609
45°	1458	1541	1660
50°	1427	1552	1729
55°	1388	1586	1829
60°	1343	1629	1959
65°	1250	1710	2118
70°	1148	1791	2316
75°	1006	1885	2396
80°	866	1796	1880
85°	756	1306	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.0
10°-20°	158.1	8.5
20°-30°	241.2	13.0
30°-40°	294.5	15.9
40°-50°	314.9	17.0
50°-60°	303.9	16.4
60°-70°	261.6	14.1
70°-80°	177.0	9.6
80°-90°	46.7	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°	454.3	24.5
0°-40°	748.8	40.4
0°-60°	1367.6	73.8
0°-90°	1853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	577	578	581	581	581	55
15°	555	556	560	563	564	157
25°	515	518	526	529	532	237
35°	457	461	470	480	484	286
45°	383	390	405	425	436	296
55°	296	305	338	372	390	265
65°	196	215	268	311	333	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°	582.1	582.1	582.1	582.1	582.1
2.5°	578.0	579.3	582.1	582.1	583.4
5°	576.6	578.0	580.7	580.7	580.7
7.5°	572.5	573.9	576.6	578.0	578.0
10°	568.4	569.8	572.5	573.9	575.2
12.5°	561.6	563.0	567.1	569.8	569.8
15°	554.8	556.2	560.2	563.0	564.3
17.5°	546.6	549.3	553.4	556.2	557.5
20°	535.7	538.4	543.9	548.0	549.3
22.5°	526.2	528.9	534.3	538.4	541.2
25°	515.3	518.0	526.2	528.9	531.6
27.5°	501.6	504.4	511.2	516.6	520.7
30°	488.0	490.7	498.9	505.7	508.5
32.5°	473.0	477.1	486.6	492.1	496.2
35°	456.7	460.7	470.3	479.8	483.9
37.5°	440.3	444.4	453.9	466.2	471.6
40°	421.2	426.7	438.9	455.3	458.0
42.5°	403.5	410.3	421.2	440.3	447.1
45°	383.0	389.9	404.9	425.3	436.2
47.5°	364.0	370.8	387.1	411.7	425.3
50°	340.8	350.3	370.8	399.4	413.0
52.5°	319.0	327.2	354.4	385.8	402.1
55°	295.8	305.3	338.1	372.1	389.9
57.5°	275.4	283.5	320.3	358.5	379.0
60°	249.5	260.4	302.6	343.5	364.0
62.5°	222.2	238.5	284.9	327.2	349.0
65°	196.3	215.4	268.5	310.8	332.6
67.5°	173.1	193.6	248.1	293.1	313.5
70°	145.9	171.8	227.6	271.3	294.4
72.5°	121.3	149.9	204.5	248.1	268.5
75°	96.8	128.1	181.3	218.1	230.4
77.5°	75.0	105.0	155.4	166.3	167.7
80°	55.9	83.2	115.9	117.2	121.3
82.5°	38.2	58.6	75.0	81.8	83.2
85°	24.5	34.1	42.3	43.6	46.3
87.5°	10.9	12.3	15.0	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)