

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: P277501

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277501
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-L83050-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: 1884.0 lumens
Efficiency: N/A
Efficacy: 86.2 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

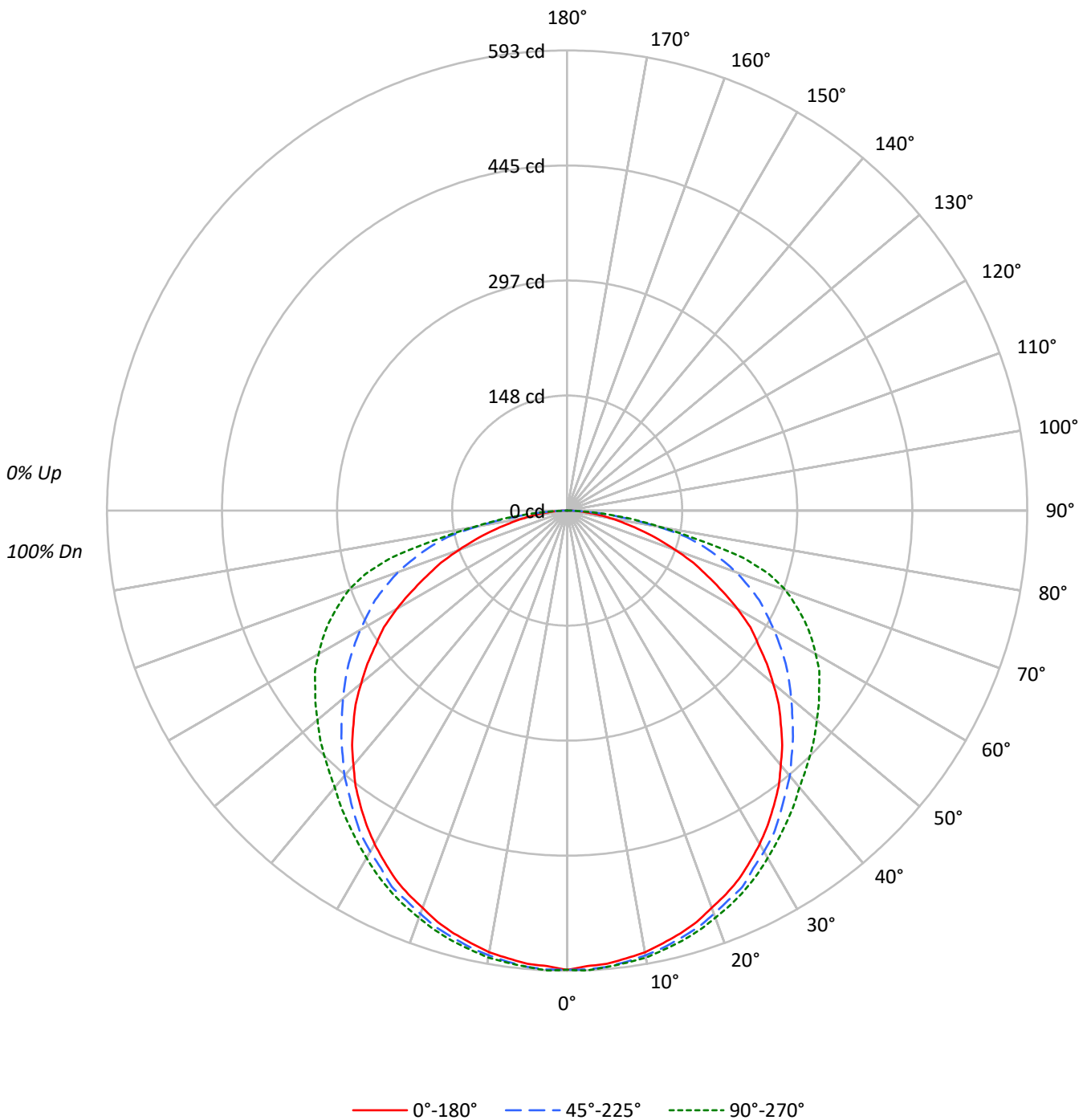
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1593	1593	1593
5°	1584	1595	1595
10°	1579	1591	1598
15°	1572	1587	1599
20°	1560	1584	1599
25°	1556	1589	1605
30°	1542	1576	1606
35°	1525	1571	1616
40°	1505	1568	1636
45°	1482	1566	1688
50°	1451	1578	1758
55°	1411	1612	1860
60°	1365	1656	1991
65°	1271	1738	2153
70°	1167	1821	2356
75°	1023	1916	2435
80°	880	1826	1911
85°	769	1328	1454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	3.0
10°-20°	160.7	8.5
20°-30°	245.2	13.0
30°-40°	299.4	15.9
40°-50°	320.2	17.0
50°-60°	309.0	16.4
60°-70°	266.0	14.1
70°-80°	180.0	9.6
80°-90°	47.5	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°	461.9	24.5
0°-40°	761.4	40.4
0°-60°	1390.5	73.8
0°-90°	1884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	586	588	590	590	590	56
15°	564	566	570	572	574	159
25°	524	527	535	538	540	241
35°	464	468	478	488	492	291
45°	389	396	412	432	444	301
55°	301	310	344	378	396	269
65°	200	219	273	316	338	198
75°	98	130	184	222	234	106
85°	25	35	43	44	47	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	591.8	591.8	591.8	591.8	591.8
2.5°	587.6	589.0	591.8	591.8	593.2
5°	586.3	587.6	590.4	590.4	590.4
7.5°	582.1	583.5	586.3	587.6	587.6
10°	577.9	579.3	582.1	583.5	584.9
12.5°	571.0	572.4	576.6	579.3	579.3
15°	564.1	565.5	569.6	572.4	573.8
17.5°	555.8	558.5	562.7	565.5	566.9
20°	544.7	547.4	553.0	557.1	558.5
22.5°	535.0	537.7	543.3	547.4	550.2
25°	523.9	526.7	535.0	537.7	540.5
27.5°	510.0	512.8	519.7	525.3	529.4
30°	496.2	498.9	507.3	514.2	517.0
32.5°	480.9	485.1	494.8	500.3	504.5
35°	464.3	468.4	478.1	487.9	492.0
37.5°	447.7	451.8	461.5	474.0	479.5
40°	428.3	433.8	446.3	462.9	465.7
42.5°	410.2	417.2	428.3	447.7	454.6
45°	389.4	396.4	411.6	432.4	443.5
47.5°	370.0	377.0	393.6	418.6	432.4
50°	346.5	356.2	377.0	406.1	419.9
52.5°	324.3	332.6	360.3	392.2	408.9
55°	300.7	310.5	343.7	378.4	396.4
57.5°	280.0	288.3	325.7	364.5	385.3
60°	253.6	264.7	307.7	349.3	370.0
62.5°	225.9	242.5	289.7	332.6	354.8
65°	199.6	219.0	273.0	316.0	338.2
67.5°	176.0	196.8	252.2	298.0	318.8
70°	148.3	174.6	231.5	275.8	299.4
72.5°	123.3	152.5	207.9	252.2	273.0
75°	98.4	130.3	184.3	221.8	234.2
77.5°	76.2	106.7	158.0	169.1	170.5
80°	56.8	84.5	117.8	119.2	123.3
82.5°	38.8	59.6	76.2	83.2	84.5
85°	24.9	34.6	43.0	44.4	47.1
87.5°	11.1	12.5	15.2	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)