

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: P277499

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277499
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-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1778.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

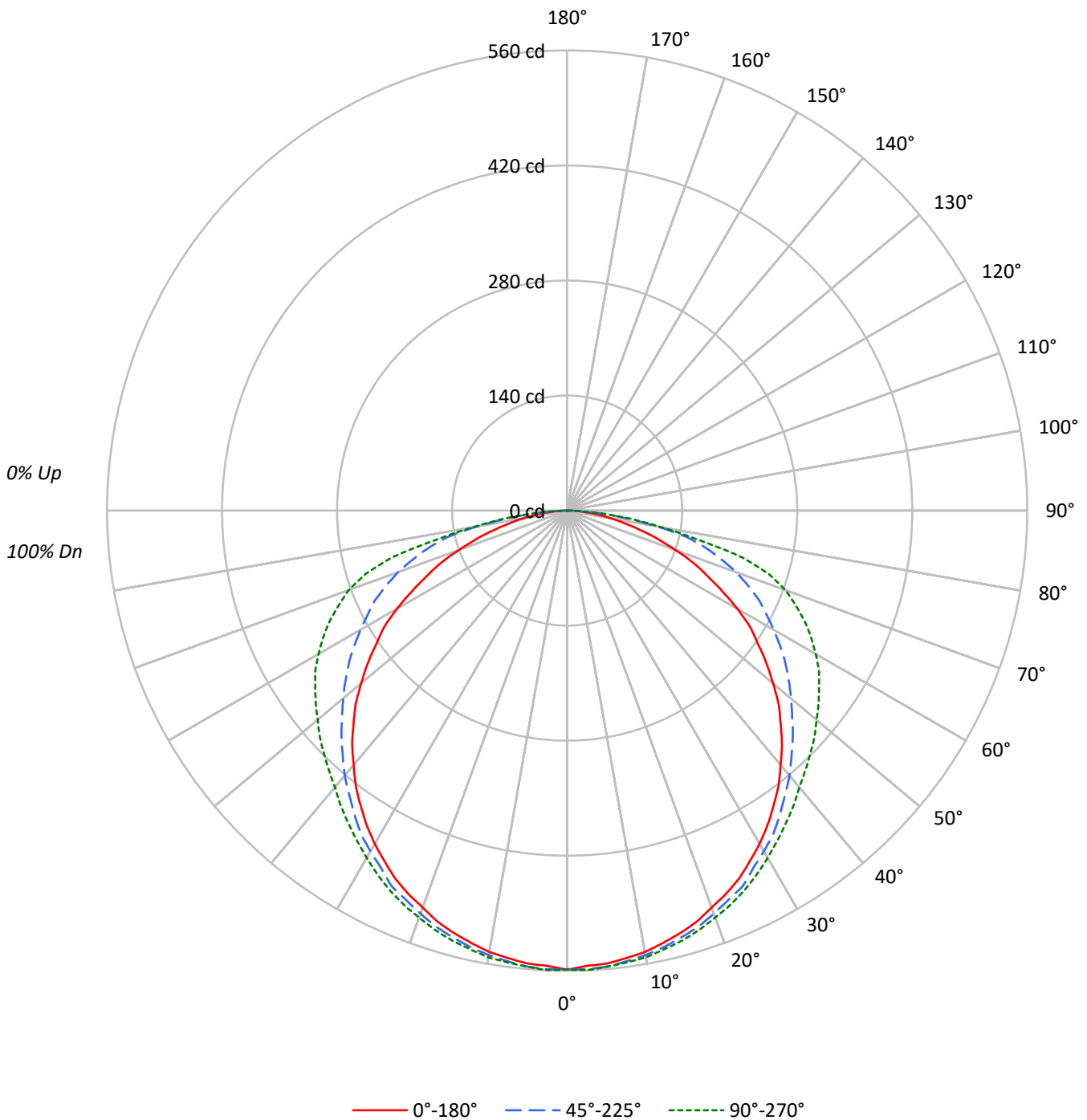
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1503	1503	1503
5°	1495	1505	1505
10°	1490	1501	1508
15°	1483	1498	1509
20°	1472	1495	1509
25°	1468	1499	1515
30°	1455	1487	1516
35°	1440	1482	1525
40°	1420	1480	1544
45°	1399	1478	1593
50°	1369	1490	1659
55°	1331	1522	1755
60°	1288	1563	1879
65°	1199	1641	2032
70°	1102	1718	2223
75°	966	1809	2298
80°	831	1723	1804
85°	726	1250	1374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	3.0
10°-20°	151.7	8.5
20°-30°	231.4	13.0
30°-40°	282.6	15.9
40°-50°	302.1	17.0
50°-60°	291.6	16.4
60°-70°	251.0	14.1
70°-80°	169.9	9.6
80°-90°	44.8	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°	435.9	24.5
0°-40°	718.5	40.4
0°-60°	1312.3	73.8
0°-90°	1778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	553	555	557	557	557	53
15°	532	534	538	540	542	150
25°	494	497	505	508	510	228
35°	438	442	451	460	464	274
45°	368	374	388	408	418	284
55°	284	293	324	357	374	254
65°	188	207	258	298	319	187
75°	93	123	174	209	221	100
85°	24	33	40	42	44	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	558.5	558.5	558.5	558.5	558.5
2.5°	554.6	555.9	558.5	558.5	559.8
5°	553.3	554.6	557.2	557.2	557.2
7.5°	549.3	550.7	553.3	554.6	554.6
10°	545.4	546.7	549.3	550.7	552.0
12.5°	538.9	540.2	544.1	546.7	546.7
15°	532.3	533.6	537.6	540.2	541.5
17.5°	524.5	527.1	531.0	533.6	535.0
20°	514.0	516.6	521.9	525.8	527.1
22.5°	504.9	507.5	512.7	516.6	519.3
25°	494.4	497.0	504.9	507.5	510.1
27.5°	481.3	483.9	490.5	495.7	499.6
30°	468.3	470.9	478.7	485.3	487.9
32.5°	453.9	457.8	466.9	472.2	476.1
35°	438.2	442.1	451.2	460.4	464.3
37.5°	422.5	426.4	435.6	447.3	452.6
40°	404.2	409.4	421.2	436.9	439.5
42.5°	387.2	393.7	404.2	422.5	429.0
45°	367.5	374.1	388.5	408.1	418.5
47.5°	349.2	355.8	371.5	395.0	408.1
50°	327.0	336.1	355.8	383.2	396.3
52.5°	306.1	313.9	340.1	370.2	385.8
55°	283.8	293.0	324.4	357.1	374.1
57.5°	264.2	272.1	307.4	344.0	363.6
60°	239.4	249.8	290.4	329.6	349.2
62.5°	213.2	228.9	273.4	313.9	334.8
65°	188.3	206.7	257.7	298.2	319.1
67.5°	166.1	185.7	238.0	281.2	300.8
70°	140.0	164.8	218.4	260.3	282.5
72.5°	116.4	143.9	196.2	238.0	257.7
75°	92.9	122.9	174.0	209.3	221.0
77.5°	71.9	100.7	149.1	159.6	160.9
80°	53.6	79.8	111.2	112.5	116.4
82.5°	36.6	56.2	71.9	78.5	79.8
85°	23.5	32.7	40.5	41.9	44.5
87.5°	10.5	11.8	14.4	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)