

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: P277574

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277574
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-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1858.0 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

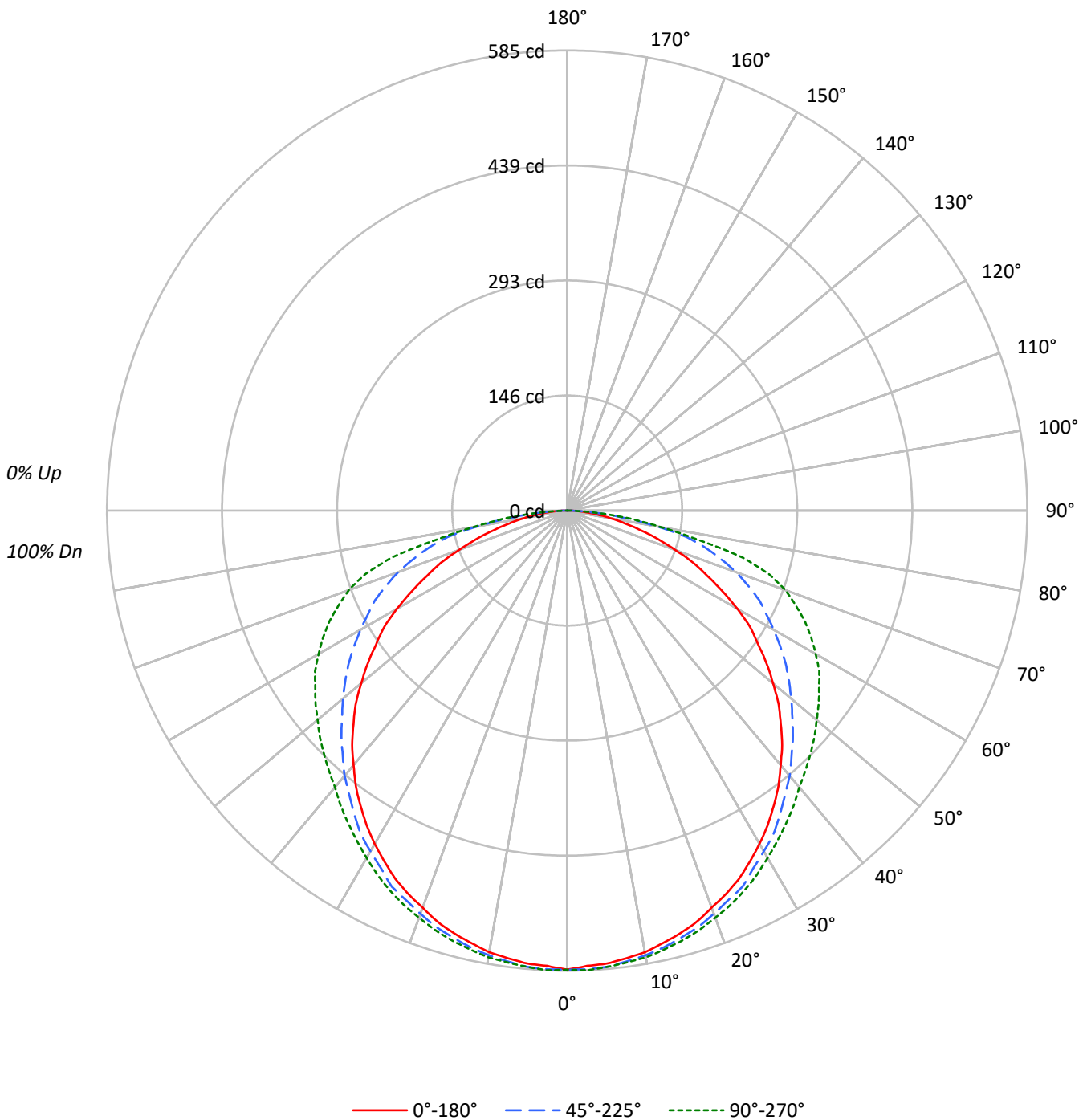
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1570	1570	1570
5°	1562	1573	1573
10°	1558	1569	1576
15°	1550	1565	1577
20°	1538	1562	1577
25°	1534	1567	1583
30°	1520	1555	1584
35°	1504	1549	1594
40°	1483	1546	1613
45°	1462	1545	1665
50°	1430	1557	1734
55°	1392	1590	1834
60°	1346	1633	1964
65°	1253	1715	2124
70°	1150	1796	2323
75°	1009	1890	2402
80°	868	1801	1884
85°	760	1309	1436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	3.0
10°-20°	158.5	8.5
20°-30°	241.8	13.0
30°-40°	295.3	15.9
40°-50°	315.7	17.0
50°-60°	304.8	16.4
60°-70°	262.3	14.1
70°-80°	177.5	9.6
80°-90°	46.8	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°	455.6	24.5
0°-40°	750.9	40.4
0°-60°	1371.3	73.8
0°-90°	1858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	578	580	582	582	582	55
15°	556	558	562	564	566	157
25°	517	519	528	530	533	238
35°	458	462	472	481	485	287
45°	384	391	406	426	437	296
55°	297	306	339	373	391	266
65°	197	216	269	312	334	196
75°	97	128	182	219	231	104
85°	25	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°	583.6	583.6	583.6	583.6	583.6
2.5°	579.5	580.9	583.6	583.6	585.0
5°	578.2	579.5	582.3	582.3	582.3
7.5°	574.1	575.4	578.2	579.5	579.5
10°	570.0	571.3	574.1	575.4	576.8
12.5°	563.1	564.5	568.6	571.3	571.3
15°	556.3	557.7	561.8	564.5	565.9
17.5°	548.1	550.8	554.9	557.7	559.0
20°	537.2	539.9	545.4	549.5	550.8
22.5°	527.6	530.3	535.8	539.9	542.6
25°	516.7	519.4	527.6	530.3	533.1
27.5°	503.0	505.7	512.6	518.0	522.1
30°	489.3	492.1	500.3	507.1	509.8
32.5°	474.3	478.4	488.0	493.4	497.5
35°	457.9	462.0	471.6	481.1	485.2
37.5°	441.5	445.6	455.1	467.5	472.9
40°	422.3	427.8	440.1	456.5	459.2
42.5°	404.6	411.4	422.3	441.5	448.3
45°	384.1	390.9	405.9	426.4	437.4
47.5°	364.9	371.8	388.2	412.8	426.4
50°	341.7	351.3	371.8	400.5	414.1
52.5°	319.8	328.0	355.4	386.8	403.2
55°	296.6	306.2	339.0	373.1	390.9
57.5°	276.1	284.3	321.2	359.5	380.0
60°	250.1	261.1	303.4	344.4	364.9
62.5°	222.8	239.2	285.7	328.0	349.9
65°	196.8	216.0	269.3	311.6	333.5
67.5°	173.6	194.1	248.8	293.9	314.4
70°	146.2	172.2	228.3	272.0	295.2
72.5°	121.6	150.3	205.0	248.8	269.3
75°	97.0	128.5	181.8	218.7	231.0
77.5°	75.2	105.2	155.8	166.8	168.1
80°	56.0	83.4	116.2	117.5	121.6
82.5°	38.3	58.8	75.2	82.0	83.4
85°	24.6	34.2	42.4	43.7	46.5
87.5°	10.9	12.3	15.0	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)