

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: P277641

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277641
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: 22CZ2-39HE-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2170.0 lumens
Efficiency: N/A
Efficacy: 71.1 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

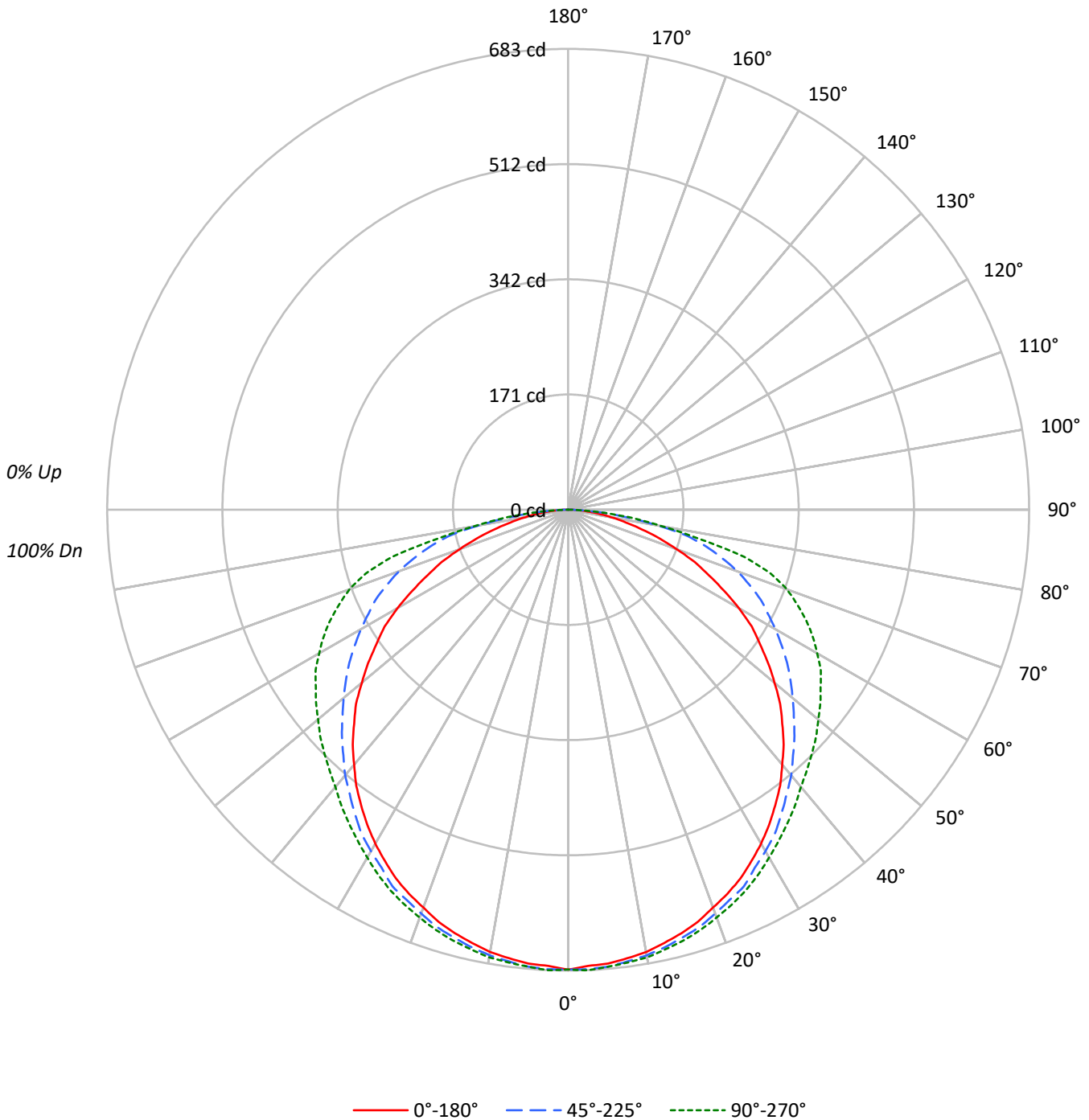
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1834	1834	1834
5°	1824	1837	1837
10°	1819	1832	1841
15°	1810	1828	1841
20°	1797	1824	1842
25°	1792	1830	1849
30°	1776	1816	1850
35°	1757	1809	1862
40°	1733	1806	1884
45°	1707	1804	1944
50°	1671	1818	2025
55°	1625	1857	2142
60°	1572	1907	2294
65°	1464	2003	2480
70°	1344	2098	2713
75°	1178	2207	2805
80°	1013	2103	2202
85°	886	1528	1677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.0
10°-20°	185.1	8.5
20°-30°	282.5	13.0
30°-40°	344.9	15.9
40°-50°	368.8	17.0
50°-60°	355.9	16.4
60°-70°	306.4	14.1
70°-80°	207.3	9.6
80°-90°	54.7	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°	532.1	24.5
0°-40°	876.9	40.4
0°-60°	1601.6	73.8
0°-90°	2170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	675	677	680	680	680	64
15°	650	651	656	659	661	183
25°	603	607	616	619	623	278
35°	535	540	551	562	567	335
45°	449	457	474	498	511	346
55°	346	358	396	436	457	310
65°	230	252	314	364	390	229
75°	113	150	212	255	270	122
85°	29	40	50	51	54	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.6	681.6	681.6	681.6	681.6
2.5°	676.8	678.4	681.6	681.6	683.2
5°	675.2	676.8	680.0	680.0	680.0
7.5°	670.5	672.1	675.2	676.8	676.8
10°	665.7	667.3	670.5	672.1	673.7
12.5°	657.7	659.3	664.1	667.3	667.3
15°	649.7	651.3	656.1	659.3	660.9
17.5°	640.1	643.3	648.1	651.3	652.9
20°	627.4	630.6	636.9	641.7	643.3
22.5°	616.2	619.4	625.8	630.6	633.7
25°	603.4	606.6	616.2	619.4	622.6
27.5°	587.5	590.6	598.6	605.0	609.8
30°	571.5	574.7	584.3	592.2	595.4
32.5°	553.9	558.7	569.9	576.3	581.1
35°	534.8	539.6	550.7	561.9	566.7
37.5°	515.6	520.4	531.6	545.9	552.3
40°	493.3	499.7	514.0	533.2	536.4
42.5°	472.5	480.5	493.3	515.6	523.6
45°	448.6	456.6	474.1	498.1	510.8
47.5°	426.2	434.2	453.4	482.1	498.1
50°	399.1	410.3	434.2	467.7	483.7
52.5°	373.5	383.1	415.0	451.8	470.9
55°	346.4	357.6	395.9	435.8	456.6
57.5°	322.5	332.0	375.1	419.8	443.8
60°	292.1	304.9	354.4	402.3	426.2
62.5°	260.2	279.4	333.6	383.1	408.7
65°	229.9	252.2	314.5	364.0	389.5
67.5°	202.7	226.7	290.5	343.2	367.2
70°	170.8	201.1	266.6	317.7	344.8
72.5°	142.1	175.6	239.5	290.5	314.5
75°	113.3	150.1	212.3	255.4	269.8
77.5°	87.8	122.9	182.0	194.8	196.3
80°	65.4	97.4	135.7	137.3	142.1
82.5°	44.7	68.6	87.8	95.8	97.4
85°	28.7	39.9	49.5	51.1	54.3
87.5°	12.8	14.4	17.6	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)