

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: P277637

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277637
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: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2034.0 lumens
Efficiency: N/A
Efficacy: 75.7 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

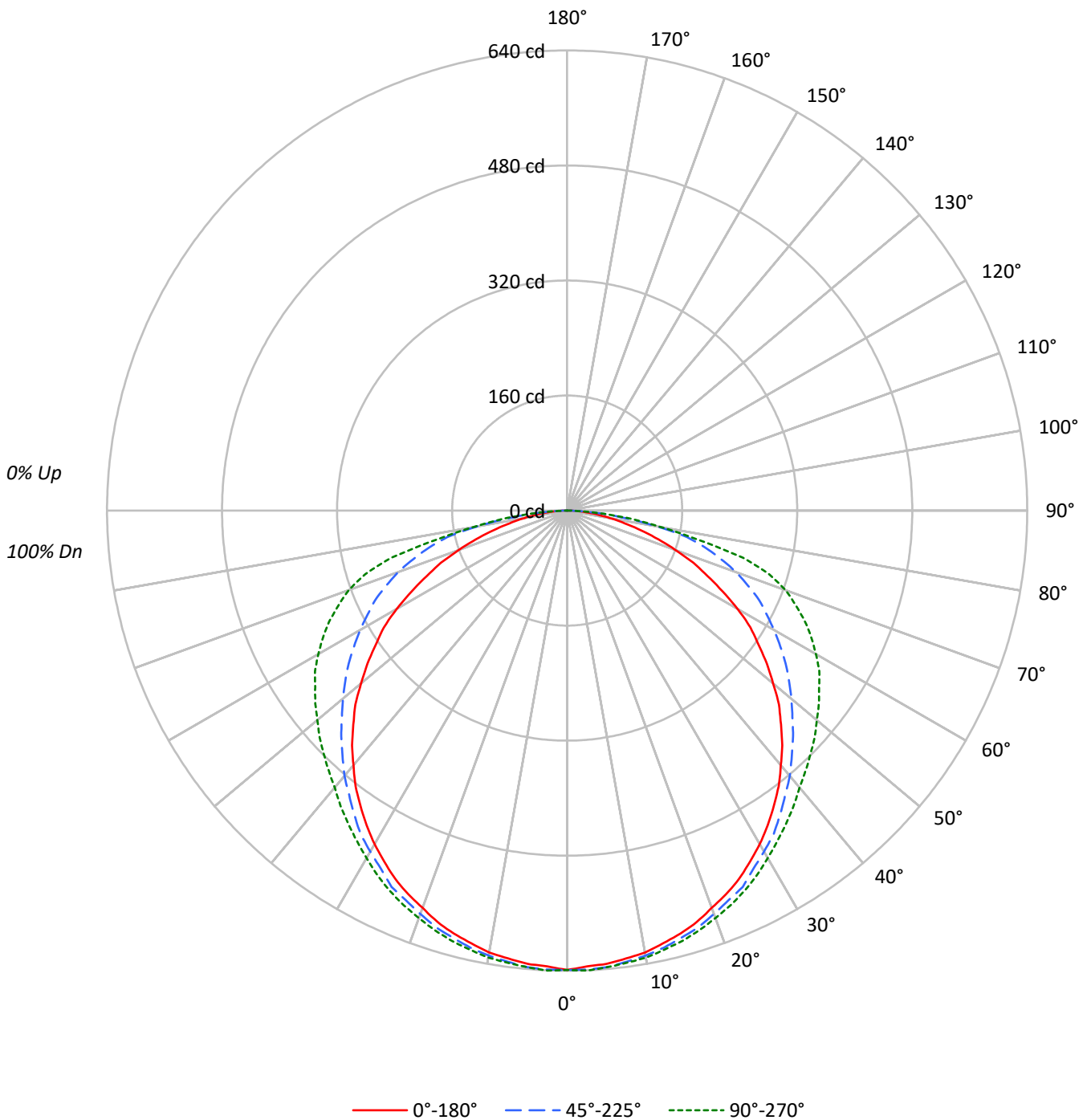
Input Watts (W): 26.877
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1719	1719	1719
5°	1710	1722	1722
10°	1705	1717	1725
15°	1697	1713	1726
20°	1684	1710	1727
25°	1679	1715	1733
30°	1665	1702	1734
35°	1647	1696	1745
40°	1624	1692	1766
45°	1600	1691	1822
50°	1566	1704	1898
55°	1523	1741	2008
60°	1474	1788	2150
65°	1372	1877	2325
70°	1260	1966	2543
75°	1104	2069	2629
80°	950	1971	2064
85°	831	1433	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.0
10°-20°	173.5	8.5
20°-30°	264.7	13.0
30°-40°	323.3	15.9
40°-50°	345.6	17.0
50°-60°	333.6	16.4
60°-70°	287.2	14.1
70°-80°	194.3	9.6
80°-90°	51.3	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°	498.7	24.5
0°-40°	822.0	40.4
0°-60°	1501.2	73.8
0°-90°	2034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	633	634	637	637	637	60
15°	609	610	615	618	620	172
25°	566	569	578	581	584	260
35°	501	506	516	527	531	314
45°	420	428	444	467	479	325
55°	325	335	371	408	428	291
65°	216	236	295	341	365	214
75°	106	141	199	239	253	114
85°	27	37	46	48	51	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.9	638.9	638.9	638.9	638.9
2.5°	634.4	635.9	638.9	638.9	640.4
5°	632.9	634.4	637.4	637.4	637.4
7.5°	628.4	629.9	632.9	634.4	634.4
10°	624.0	625.4	628.4	629.9	631.4
12.5°	616.5	618.0	622.5	625.4	625.4
15°	609.0	610.5	615.0	618.0	619.5
17.5°	600.0	603.0	607.5	610.5	612.0
20°	588.0	591.0	597.0	601.5	603.0
22.5°	577.6	580.6	586.5	591.0	594.0
25°	565.6	568.6	577.6	580.6	583.6
27.5°	550.6	553.6	561.1	567.1	571.6
30°	535.7	538.7	547.6	555.1	558.1
32.5°	519.2	523.7	534.2	540.2	544.6
35°	501.3	505.7	516.2	526.7	531.2
37.5°	483.3	487.8	498.3	511.7	517.7
40°	462.4	468.3	481.8	499.8	502.8
42.5°	442.9	450.4	462.4	483.3	490.8
45°	420.5	427.9	444.4	466.8	478.8
47.5°	399.5	407.0	424.9	451.9	466.8
50°	374.1	384.5	407.0	438.4	453.4
52.5°	350.1	359.1	389.0	423.4	441.4
55°	324.7	335.2	371.1	408.5	427.9
57.5°	302.3	311.2	351.6	393.5	416.0
60°	273.8	285.8	332.2	377.1	399.5
62.5°	243.9	261.9	312.7	359.1	383.0
65°	215.5	236.4	294.8	341.2	365.1
67.5°	190.0	212.5	272.3	321.7	344.1
70°	160.1	188.5	249.9	297.8	323.2
72.5°	133.2	164.6	224.4	272.3	294.8
75°	106.2	140.7	199.0	239.4	252.9
77.5°	82.3	115.2	170.6	182.5	184.0
80°	61.3	91.3	127.2	128.7	133.2
82.5°	41.9	64.3	82.3	89.8	91.3
85°	26.9	37.4	46.4	47.9	50.9
87.5°	12.0	13.5	16.5	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)