

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: P277636

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277636
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-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2020.0 lumens
Efficiency: N/A
Efficacy: 76.5 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

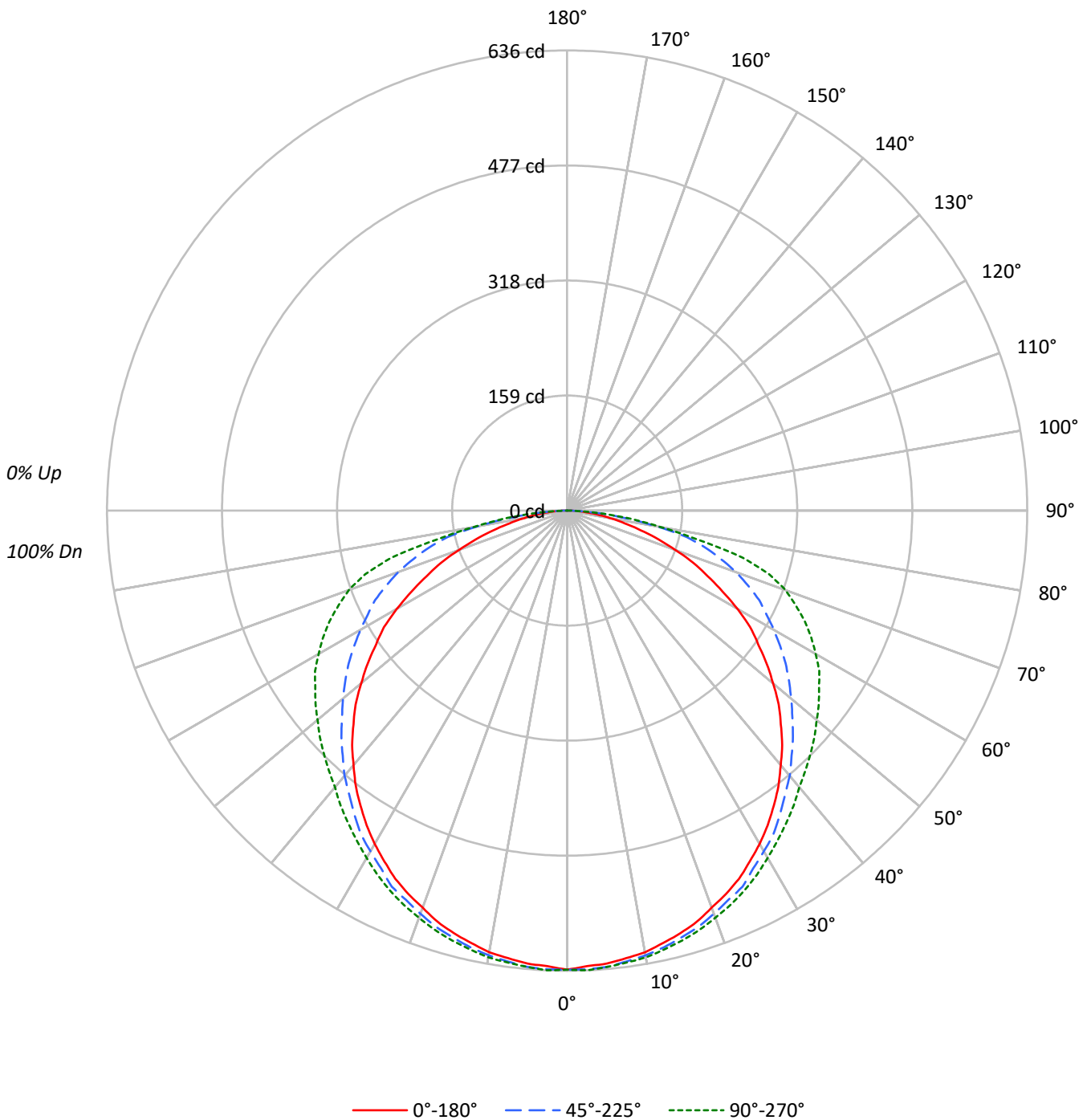
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277636

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P277636

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5700K

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°	1707	1707	1707
5°	1698	1710	1710
10°	1693	1705	1714
15°	1685	1701	1714
20°	1672	1698	1715
25°	1668	1703	1721
30°	1653	1690	1722
35°	1635	1684	1733
40°	1613	1681	1754
45°	1589	1679	1810
50°	1555	1692	1885
55°	1513	1729	1994
60°	1463	1776	2136
65°	1363	1864	2309
70°	1251	1953	2526
75°	1097	2054	2611
80°	944	1957	2050
85°	824	1423	1559



TEST NUMBER: P277636

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	3.0
10°-20°	172.3	8.5
20°-30°	262.9	13.0
30°-40°	321.0	15.9
40°-50°	343.3	17.0
50°-60°	331.3	16.4
60°-70°	285.2	14.1
70°-80°	193.0	9.6
80°-90°	50.9	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°	495.3	24.5
0°-40°	816.3	40.4
0°-60°	1490.9	73.8
0°-90°	2020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	629	630	633	633	633	60
15°	605	606	611	614	615	171
25°	562	565	574	577	580	259
35°	498	502	513	523	528	311
45°	418	425	441	464	476	322
55°	322	333	368	406	425	289
65°	214	235	293	339	363	213
75°	106	140	198	238	251	113
85°	27	37	46	48	50	30
90°	0	0	0	0	0	



TEST NUMBER: P277636

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.5	634.5	634.5	634.5	634.5
2.5°	630.1	631.5	634.5	634.5	636.0
5°	628.6	630.1	633.0	633.0	633.0
7.5°	624.1	625.6	628.6	630.1	630.1
10°	619.7	621.1	624.1	625.6	627.1
12.5°	612.2	613.7	618.2	621.1	621.1
15°	604.8	606.3	610.7	613.7	615.2
17.5°	595.9	598.9	603.3	606.3	607.8
20°	584.0	587.0	592.9	597.4	598.9
22.5°	573.6	576.6	582.5	587.0	589.9
25°	561.7	564.7	573.6	576.6	579.5
27.5°	546.8	549.8	557.2	563.2	567.6
30°	532.0	535.0	543.9	551.3	554.3
32.5°	515.6	520.1	530.5	536.4	540.9
35°	497.8	502.3	512.7	523.1	527.5
37.5°	480.0	484.4	494.8	508.2	514.2
40°	459.2	465.1	478.5	496.3	499.3
42.5°	439.9	447.3	459.2	480.0	487.4
45°	417.6	425.0	441.3	463.6	475.5
47.5°	396.8	404.2	422.0	448.8	463.6
50°	371.5	381.9	404.2	435.4	450.3
52.5°	347.7	356.6	386.4	420.5	438.4
55°	322.5	332.9	368.5	405.7	425.0
57.5°	300.2	309.1	349.2	390.8	413.1
60°	271.9	283.8	329.9	374.5	396.8
62.5°	242.2	260.0	310.6	356.6	380.4
65°	214.0	234.8	292.7	338.8	362.6
67.5°	188.7	211.0	270.4	319.5	341.8
70°	159.0	187.2	248.2	295.7	321.0
72.5°	132.3	163.5	222.9	270.4	292.7
75°	105.5	139.7	197.6	237.8	251.1
77.5°	81.7	114.4	169.4	181.3	182.8
80°	60.9	90.6	126.3	127.8	132.3
82.5°	41.6	63.9	81.7	89.2	90.6
85°	26.7	37.1	46.1	47.6	50.5
87.5°	11.9	13.4	16.3	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)