

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: P277625

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277625
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1644.0 lumens
Efficiency: N/A
Efficacy: 77.2 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

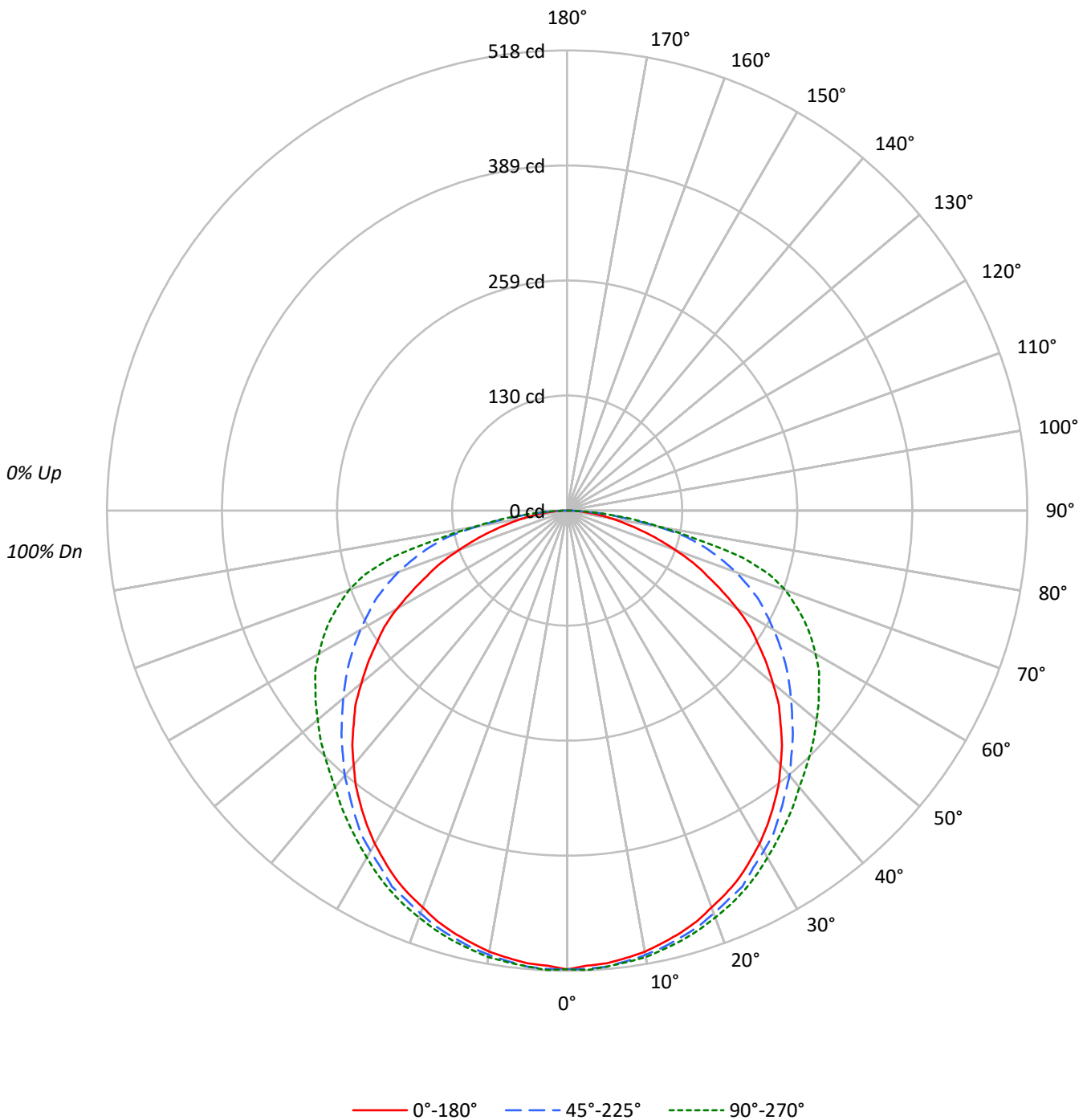
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1390	1390	1390
5°	1382	1392	1392
10°	1378	1388	1395
15°	1371	1385	1395
20°	1361	1382	1396
25°	1357	1386	1401
30°	1345	1375	1402
35°	1331	1371	1410
40°	1313	1368	1428
45°	1293	1367	1473
50°	1266	1377	1534
55°	1231	1407	1623
60°	1191	1445	1738
65°	1109	1517	1879
70°	1018	1589	2055
75°	893	1672	2125
80°	769	1593	1667
85°	673	1158	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	3.0
10°-20°	140.3	8.5
20°-30°	214.0	13.0
30°-40°	261.3	15.9
40°-50°	279.4	17.0
50°-60°	269.7	16.4
60°-70°	232.1	14.1
70°-80°	157.0	9.6
80°-90°	41.4	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°	403.1	24.5
0°-40°	664.4	40.4
0°-60°	1213.4	73.8
0°-90°	1644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	512	513	515	515	515	49
15°	492	493	497	500	501	139
25°	457	460	467	469	472	210
35°	405	409	417	426	429	254
45°	340	346	359	377	387	262
55°	262	271	300	330	346	235
65°	174	191	238	276	295	173
75°	86	114	161	194	204	92
85°	22	30	38	39	41	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	516.4	516.4	516.4	516.4	516.4
2.5°	512.8	514.0	516.4	516.4	517.6
5°	511.6	512.8	515.2	515.2	515.2
7.5°	507.9	509.2	511.6	512.8	512.8
10°	504.3	505.5	507.9	509.2	510.4
12.5°	498.3	499.5	503.1	505.5	505.5
15°	492.2	493.4	497.1	499.5	500.7
17.5°	485.0	487.4	491.0	493.4	494.6
20°	475.3	477.7	482.5	486.2	487.4
22.5°	466.8	469.2	474.1	477.7	480.1
25°	457.1	459.6	466.8	469.2	471.7
27.5°	445.1	447.5	453.5	458.4	462.0
30°	433.0	435.4	442.6	448.7	451.1
32.5°	419.7	423.3	431.8	436.6	440.2
35°	405.1	408.8	417.2	425.7	429.3
37.5°	390.6	394.3	402.7	413.6	418.4
40°	373.7	378.5	389.4	403.9	406.4
42.5°	358.0	364.0	373.7	390.6	396.7
45°	339.8	345.9	359.2	377.3	387.0
47.5°	322.9	329.0	343.5	365.2	377.3
50°	302.3	310.8	329.0	354.4	366.4
52.5°	283.0	290.3	314.4	342.3	356.8
55°	262.4	270.9	299.9	330.2	345.9
57.5°	244.3	251.6	284.2	318.1	336.2
60°	221.3	231.0	268.5	304.8	322.9
62.5°	197.1	211.6	252.8	290.3	309.6
65°	174.2	191.1	238.2	275.7	295.1
67.5°	153.6	171.7	220.1	260.0	278.2
70°	129.4	152.4	202.0	240.7	261.2
72.5°	107.6	133.0	181.4	220.1	238.2
75°	85.9	113.7	160.8	193.5	204.4
77.5°	66.5	93.1	137.9	147.5	148.8
80°	49.6	73.8	102.8	104.0	107.6
82.5°	33.9	52.0	66.5	72.6	73.8
85°	21.8	30.2	37.5	38.7	41.1
87.5°	9.7	10.9	13.3	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)