

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: P277530

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277530
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-L93050-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: 1632.0 lumens
Efficiency: N/A
Efficacy: 76.4 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

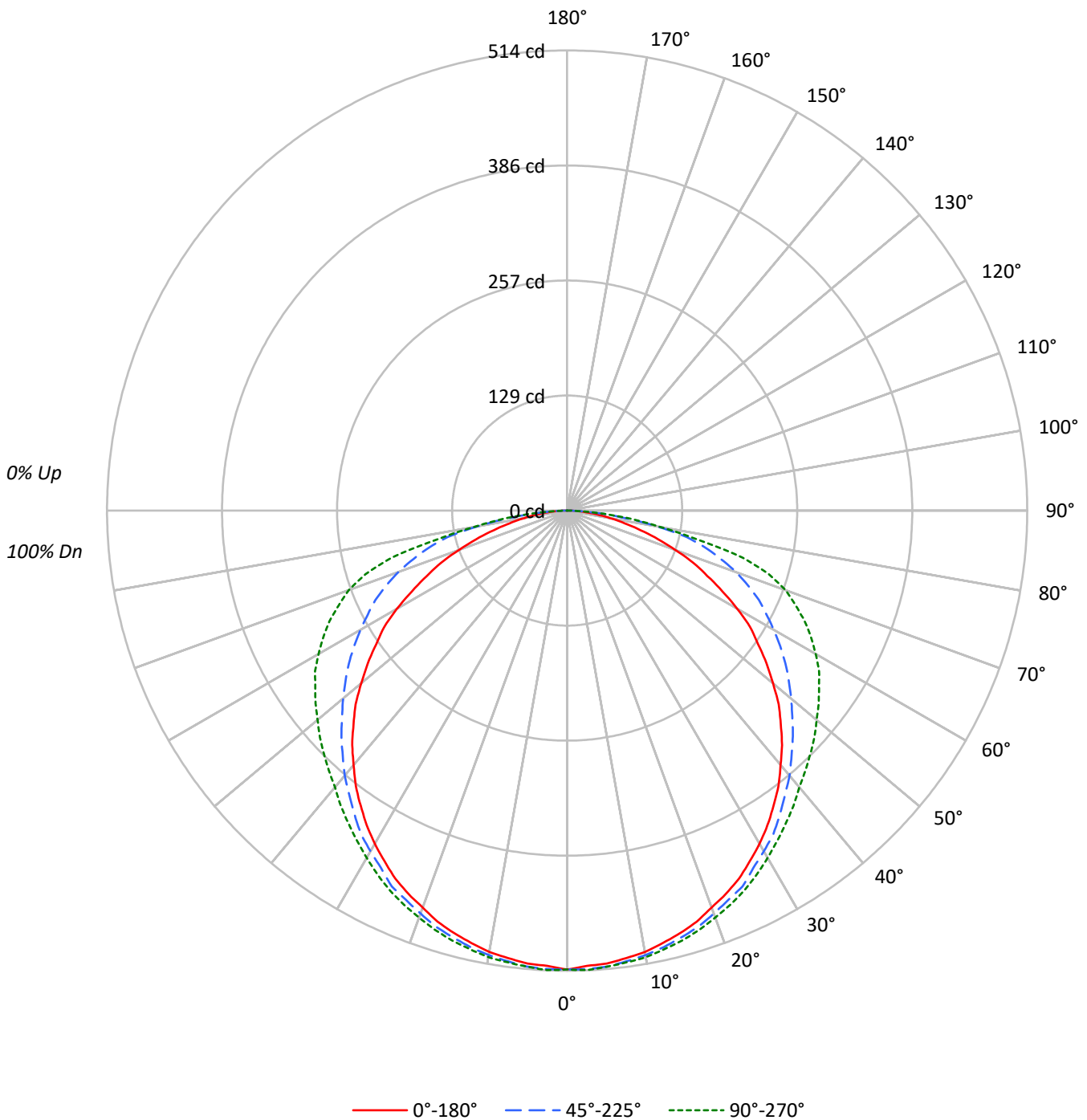
Input Watts (W): 21.373632
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1379	1379	1379
5°	1372	1381	1381
10°	1368	1378	1384
15°	1361	1375	1385
20°	1351	1372	1385
25°	1347	1376	1390
30°	1336	1365	1391
35°	1321	1361	1400
40°	1303	1358	1417
45°	1284	1357	1462
50°	1256	1367	1523
55°	1222	1397	1611
60°	1182	1434	1725
65°	1101	1506	1865
70°	1011	1578	2040
75°	886	1660	2110
80°	762	1581	1655
85°	667	1149	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	3.0
10°-20°	139.2	8.5
20°-30°	212.4	13.0
30°-40°	259.4	15.9
40°-50°	277.3	17.0
50°-60°	267.7	16.4
60°-70°	230.4	14.1
70°-80°	155.9	9.6
80°-90°	41.1	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°	400.1	24.5
0°-40°	659.5	40.4
0°-60°	1204.5	73.8
0°-90°	1632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	508	509	511	511	511	48
15°	489	490	493	496	497	138
25°	454	456	463	466	468	209
35°	402	406	414	423	426	252
45°	337	343	357	375	384	260
55°	260	269	298	328	343	233
65°	173	190	236	274	293	172
75°	85	113	160	192	203	91
85°	22	30	37	38	41	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	512.6	512.6	512.6	512.6	512.6
2.5°	509.0	510.2	512.6	512.6	513.8
5°	507.8	509.0	511.4	511.4	511.4
7.5°	504.2	505.4	507.8	509.0	509.0
10°	500.6	501.8	504.2	505.4	506.6
12.5°	494.6	495.8	499.4	501.8	501.8
15°	488.6	489.8	493.4	495.8	497.0
17.5°	481.4	483.8	487.4	489.8	491.0
20°	471.8	474.2	479.0	482.6	483.8
22.5°	463.4	465.8	470.6	474.2	476.6
25°	453.8	456.2	463.4	465.8	468.2
27.5°	441.8	444.2	450.2	455.0	458.6
30°	429.8	432.2	439.4	445.4	447.8
32.5°	416.6	420.2	428.6	433.4	437.0
35°	402.2	405.8	414.2	422.6	426.2
37.5°	387.8	391.4	399.8	410.6	415.4
40°	371.0	375.8	386.6	401.0	403.4
42.5°	355.4	361.4	371.0	387.8	393.8
45°	337.4	343.4	356.6	374.6	384.2
47.5°	320.5	326.6	341.0	362.6	374.6
50°	300.1	308.5	326.6	351.8	363.8
52.5°	280.9	288.1	312.1	339.8	354.2
55°	260.5	268.9	297.7	327.8	343.4
57.5°	242.5	249.7	282.1	315.7	333.8
60°	219.7	229.3	266.5	302.5	320.5
62.5°	195.7	210.1	250.9	288.1	307.3
65°	172.9	189.7	236.5	273.7	292.9
67.5°	152.5	170.5	218.5	258.1	276.1
70°	128.5	151.3	200.5	238.9	259.3
72.5°	106.8	132.1	180.1	218.5	236.5
75°	85.2	112.9	159.7	192.1	202.9
77.5°	66.0	92.4	136.9	146.5	147.7
80°	49.2	73.2	102.0	103.2	106.8
82.5°	33.6	51.6	66.0	72.0	73.2
85°	21.6	30.0	37.2	38.4	40.8
87.5°	9.6	10.8	13.2	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)