

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: P277566

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277566
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-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1631.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

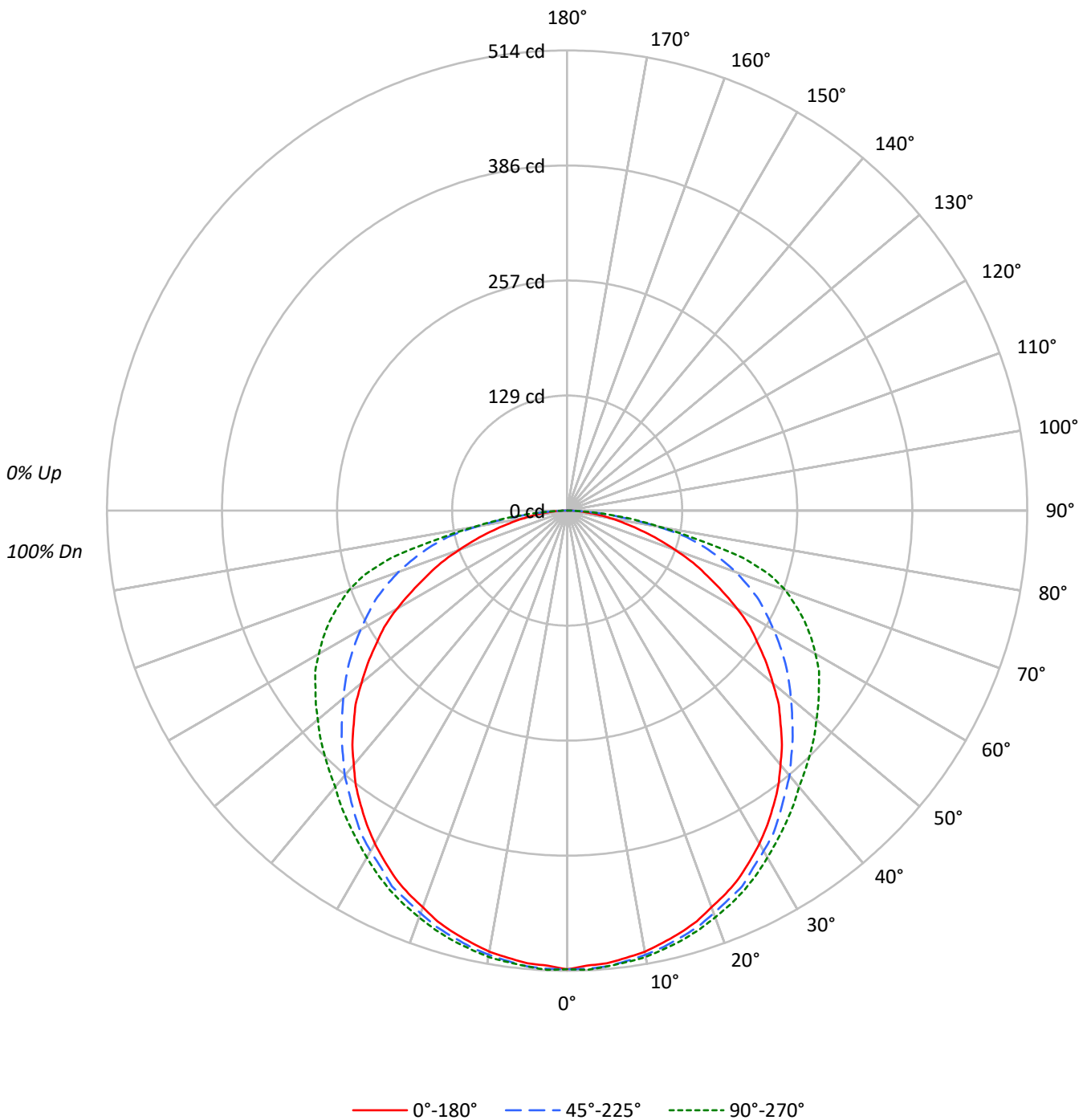
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1371	1381	1381
10°	1367	1377	1383
15°	1360	1374	1384
20°	1350	1371	1385
25°	1347	1375	1389
30°	1335	1364	1391
35°	1320	1360	1399
40°	1302	1357	1416
45°	1283	1356	1461
50°	1256	1366	1522
55°	1222	1396	1610
60°	1182	1434	1724
65°	1100	1505	1864
70°	1010	1577	2039
75°	886	1659	2109
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°	139.1	8.5
20°-30°	212.3	13.0
30°-40°	259.2	15.9
40°-50°	277.1	17.0
50°-60°	267.6	16.4
60°-70°	230.3	14.1
70°-80°	155.8	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°	399.9	24.5
0°-40°	659.1	40.4
0°-60°	1203.8	73.8
0°-90°	1631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	512	512	512	512	512	
5°	508	509	511	511	511	48
15°	488	490	493	496	497	138
25°	454	456	463	466	468	209
35°	402	406	414	422	426	251
45°	337	343	356	374	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°	512.3	512.3	512.3	512.3	512.3
2.5°	508.7	509.9	512.3	512.3	513.5
5°	507.5	508.7	511.1	511.1	511.1
7.5°	503.9	505.1	507.5	508.7	508.7
10°	500.3	501.5	503.9	505.1	506.3
12.5°	494.3	495.5	499.1	501.5	501.5
15°	488.3	489.5	493.1	495.5	496.7
17.5°	481.1	483.5	487.1	489.5	490.7
20°	471.5	473.9	478.7	482.3	483.5
22.5°	463.1	465.5	470.3	473.9	476.3
25°	453.5	455.9	463.1	465.5	467.9
27.5°	441.5	443.9	449.9	454.7	458.3
30°	429.5	431.9	439.1	445.1	447.5
32.5°	416.3	419.9	428.3	433.1	436.7
35°	401.9	405.5	413.9	422.3	425.9
37.5°	387.5	391.1	399.5	410.3	415.1
40°	370.7	375.5	386.3	400.7	403.1
42.5°	355.1	361.1	370.7	387.5	393.5
45°	337.2	343.2	356.3	374.3	383.9
47.5°	320.4	326.4	340.8	362.3	374.3
50°	300.0	308.4	326.4	351.5	363.5
52.5°	280.8	288.0	312.0	339.6	353.9
55°	260.4	268.8	297.6	327.6	343.2
57.5°	242.4	249.6	282.0	315.6	333.6
60°	219.6	229.2	266.4	302.4	320.4
62.5°	195.6	210.0	250.8	288.0	307.2
65°	172.8	189.6	236.4	273.6	292.8
67.5°	152.4	170.4	218.4	258.0	276.0
70°	128.4	151.2	200.4	238.8	259.2
72.5°	106.8	132.0	180.0	218.4	236.4
75°	85.2	112.8	159.6	192.0	202.8
77.5°	66.0	92.4	136.8	146.4	147.6
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)