

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: P277529

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277529
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-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1511.0 lumens
Efficiency: N/A
Efficacy: 71.2 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

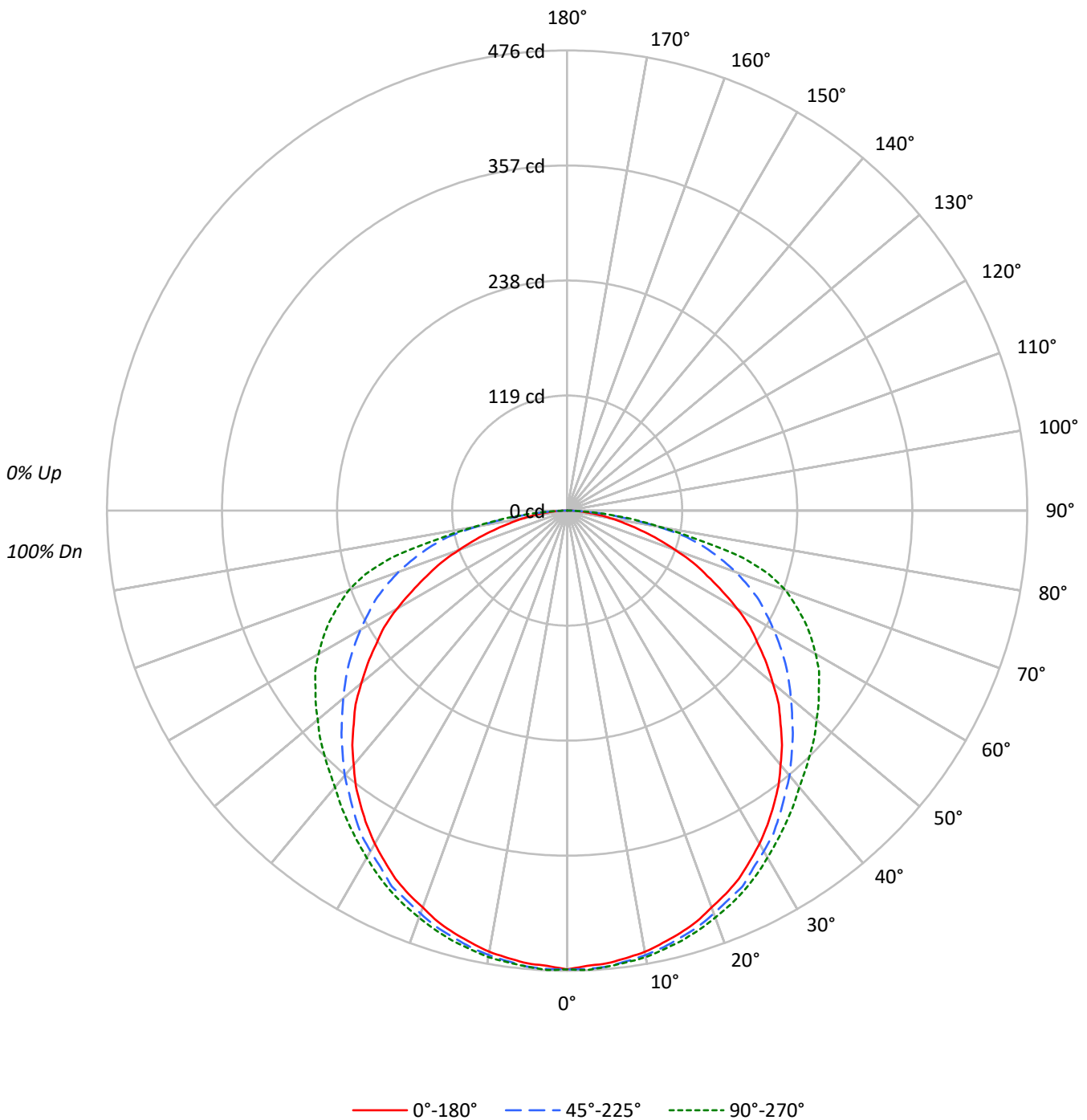
Input Watts (W): 21.227808
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1277	1277	1277
5°	1270	1279	1279
10°	1267	1276	1282
15°	1260	1273	1282
20°	1251	1270	1283
25°	1248	1274	1287
30°	1236	1264	1288
35°	1223	1260	1296
40°	1207	1257	1312
45°	1188	1256	1354
50°	1163	1266	1410
55°	1132	1293	1491
60°	1095	1328	1597
65°	1019	1394	1727
70°	935	1460	1889
75°	820	1537	1954
80°	707	1464	1533
85°	618	1065	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	3.0
10°-20°	128.9	8.5
20°-30°	196.7	13.0
30°-40°	240.1	15.9
40°-50°	256.8	17.0
50°-60°	247.8	16.4
60°-70°	213.3	14.1
70°-80°	144.3	9.6
80°-90°	38.1	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°	370.5	24.5
0°-40°	610.6	40.4
0°-60°	1115.2	73.8
0°-90°	1511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	475	475	475	475	475	
5°	470	471	474	474	474	45
15°	452	454	457	459	460	128
25°	420	422	429	431	434	193
35°	372	376	384	391	395	233
45°	312	318	330	347	356	241
55°	241	249	276	304	318	216
65°	160	176	219	253	271	159
75°	79	104	148	178	188	85
85°	20	28	34	36	38	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	474.6	474.6	474.6	474.6	474.6
2.5°	471.3	472.4	474.6	474.6	475.7
5°	470.2	471.3	473.5	473.5	473.5
7.5°	466.9	468.0	470.2	471.3	471.3
10°	463.5	464.6	466.9	468.0	469.1
12.5°	458.0	459.1	462.4	464.6	464.6
15°	452.4	453.5	456.8	459.1	460.2
17.5°	445.7	448.0	451.3	453.5	454.6
20°	436.8	439.1	443.5	446.8	448.0
22.5°	429.1	431.3	435.7	439.1	441.3
25°	420.2	422.4	429.1	431.3	433.5
27.5°	409.1	411.3	416.8	421.3	424.6
30°	397.9	400.2	406.8	412.4	414.6
32.5°	385.7	389.0	396.8	401.3	404.6
35°	372.4	375.7	383.5	391.3	394.6
37.5°	359.0	362.4	370.1	380.1	384.6
40°	343.5	347.9	357.9	371.3	373.5
42.5°	329.0	334.6	343.5	359.0	364.6
45°	312.3	317.9	330.1	346.8	355.7
47.5°	296.8	302.3	315.7	335.7	346.8
50°	277.9	285.7	302.3	325.7	336.8
52.5°	260.1	266.8	289.0	314.6	327.9
55°	241.2	249.0	275.7	303.5	317.9
57.5°	224.5	231.2	261.2	292.3	309.0
60°	203.4	212.3	246.8	280.1	296.8
62.5°	181.2	194.5	232.3	266.8	284.6
65°	160.1	175.6	219.0	253.4	271.2
67.5°	141.2	157.8	202.3	239.0	255.7
70°	118.9	140.1	185.6	221.2	240.1
72.5°	98.9	122.3	166.7	202.3	219.0
75°	78.9	104.5	147.8	177.8	187.9
77.5°	61.1	85.6	126.7	135.6	136.7
80°	45.6	67.8	94.5	95.6	98.9
82.5°	31.1	47.8	61.1	66.7	67.8
85°	20.0	27.8	34.5	35.6	37.8
87.5°	8.9	10.0	12.2	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)