

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: P277498

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277498
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1680.0 lumens
Efficiency: N/A
Efficacy: 80.6 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

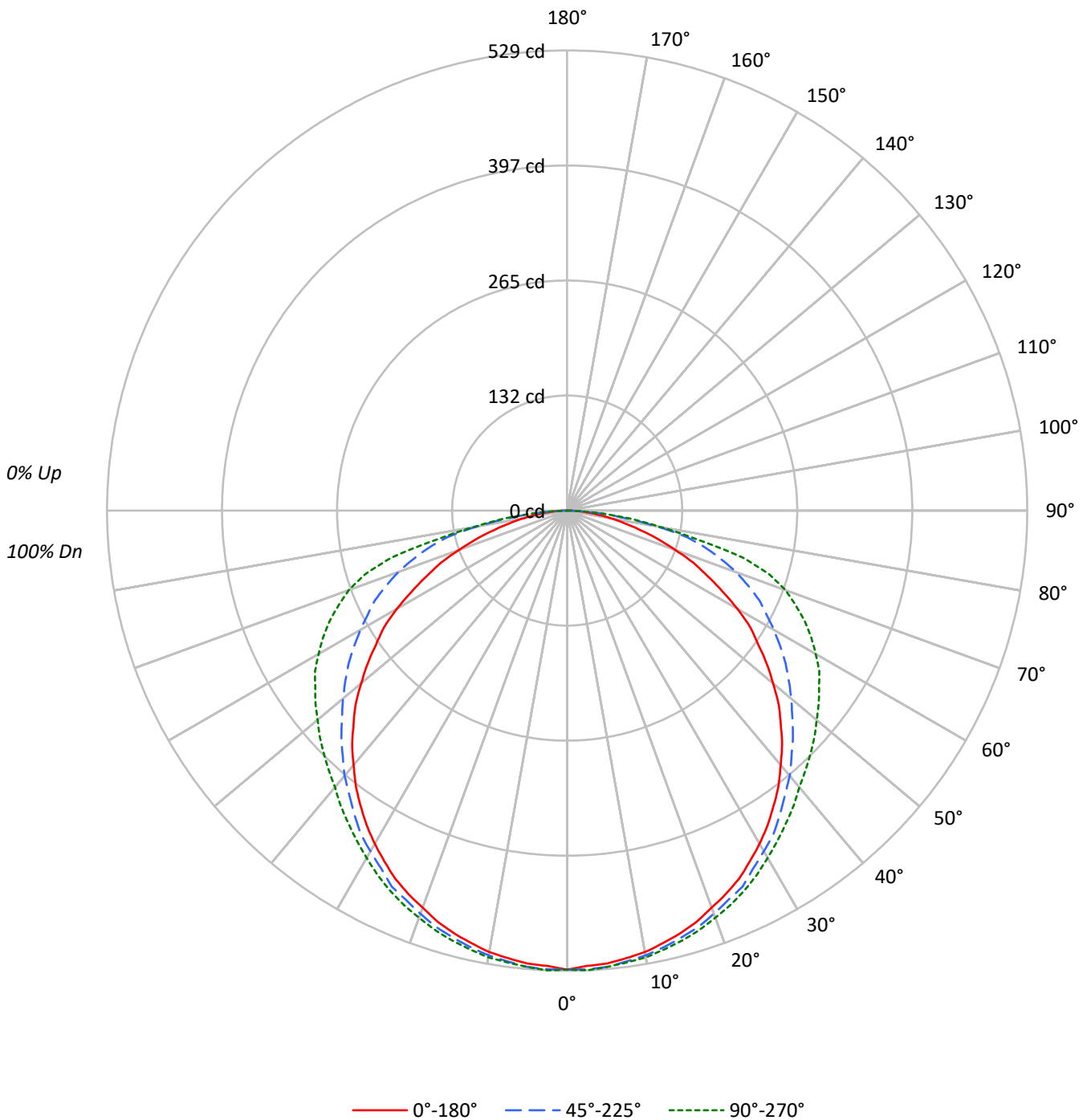
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1420	1420	1420
5°	1412	1422	1422
10°	1408	1418	1425
15°	1401	1415	1426
20°	1391	1412	1426
25°	1387	1416	1431
30°	1375	1405	1432
35°	1360	1401	1441
40°	1342	1398	1459
45°	1322	1397	1505
50°	1294	1407	1568
55°	1258	1438	1658
60°	1217	1477	1776
65°	1133	1550	1920
70°	1040	1624	2100
75°	912	1709	2172
80°	786	1627	1705
85°	685	1183	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	3.0
10°-20°	143.3	8.5
20°-30°	218.7	13.0
30°-40°	267.0	15.9
40°-50°	285.5	17.0
50°-60°	275.6	16.4
60°-70°	237.2	14.1
70°-80°	160.5	9.6
80°-90°	42.3	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°	411.9	24.5
0°-40°	678.9	40.4
0°-60°	1240.0	73.8
0°-90°	1680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	523	524	526	526	526	50
15°	503	504	508	510	512	142
25°	467	470	477	480	482	215
35°	414	418	426	435	439	259
45°	347	354	367	386	396	268
55°	268	277	306	337	354	240
65°	178	195	244	282	302	177
75°	88	116	164	198	209	94
85°	22	31	38	40	42	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	527.7	527.7	527.7	527.7	527.7
2.5°	524.0	525.2	527.7	527.7	529.0
5°	522.8	524.0	526.5	526.5	526.5
7.5°	519.1	520.3	522.8	524.0	524.0
10°	515.4	516.6	519.1	520.3	521.5
12.5°	509.2	510.4	514.1	516.6	516.6
15°	503.0	504.2	507.9	510.4	511.7
17.5°	495.6	498.1	501.8	504.2	505.5
20°	485.7	488.2	493.1	496.8	498.1
22.5°	477.0	479.5	484.5	488.2	490.6
25°	467.2	469.6	477.0	479.5	482.0
27.5°	454.8	457.3	463.5	468.4	472.1
30°	442.4	444.9	452.3	458.5	461.0
32.5°	428.8	432.6	441.2	446.1	449.9
35°	414.0	417.7	426.4	435.0	438.7
37.5°	399.2	402.9	411.5	422.7	427.6
40°	381.9	386.8	398.0	412.8	415.3
42.5°	365.8	372.0	381.9	399.2	405.4
45°	347.3	353.5	367.1	385.6	395.5
47.5°	330.0	336.2	351.0	373.2	385.6
50°	309.0	317.6	336.2	362.1	374.5
52.5°	289.2	296.6	321.3	349.8	364.6
55°	268.2	276.8	306.5	337.4	353.5
57.5°	249.6	257.1	290.4	325.0	343.6
60°	226.2	236.1	274.4	311.4	330.0
62.5°	201.4	216.3	258.3	296.6	316.4
65°	178.0	195.3	243.5	281.8	301.6
67.5°	157.0	175.5	224.9	265.7	284.3
70°	132.2	155.7	206.4	245.9	266.9
72.5°	110.0	135.9	185.4	224.9	243.5
75°	87.7	116.2	164.4	197.7	208.9
77.5°	68.0	95.2	140.9	150.8	152.0
80°	50.7	75.4	105.0	106.3	110.0
82.5°	34.6	53.1	68.0	74.2	75.4
85°	22.2	30.9	38.3	39.5	42.0
87.5°	9.9	11.1	13.6	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)