

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: P390241

Luminaire Tested: **22CZ2-29VHE-RDP-UNV-L935-CD1-SWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P390241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29VHE-RDP-UNV-L935-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1748.8 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

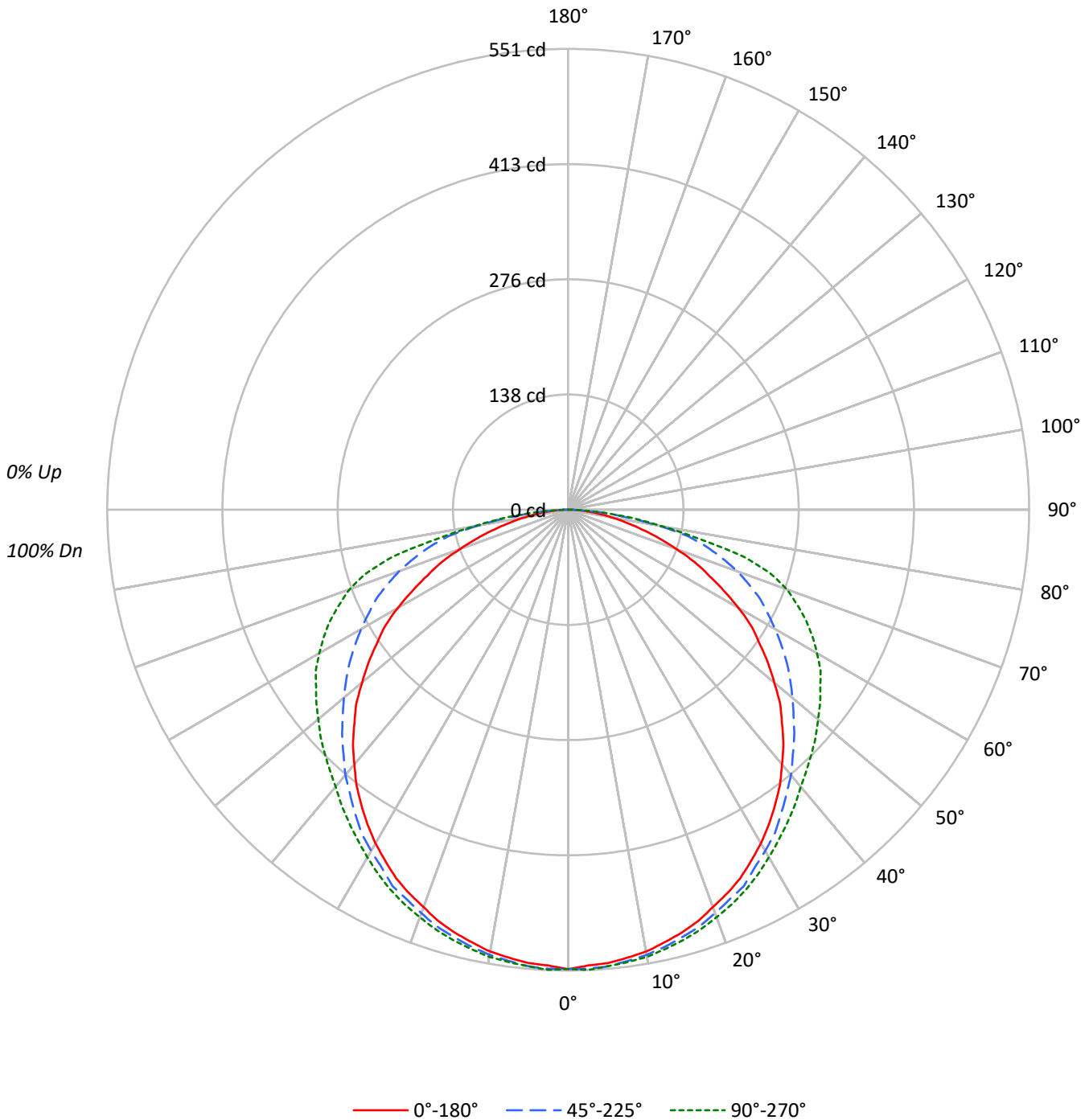
Input Watts (W): 21.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1478	1478	1478
5°	1470	1480	1480
10°	1466	1476	1483
15°	1459	1473	1484
20°	1448	1470	1485
25°	1444	1474	1490
30°	1431	1463	1491
35°	1416	1458	1500
40°	1396	1455	1519
45°	1376	1454	1567
50°	1346	1465	1632
55°	1310	1497	1726
60°	1267	1537	1849
65°	1180	1613	1999
70°	1083	1690	2186
75°	949	1779	2260
80°	817	1695	1774
85°	716	1232	1349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	3.0
10°-20°	149.2	8.5
20°-30°	227.6	13.0
30°-40°	277.9	15.9
40°-50°	297.2	17.0
50°-60°	286.8	16.4
60°-70°	246.9	14.1
70°-80°	167.1	9.6
80°-90°	44.1	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°	428.8	24.5
0°-40°	706.7	40.4
0°-60°	1290.7	73.8
0°-90°	1748.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1748.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	544	546	548	548	548	52
15°	524	525	529	531	533	148
25°	486	489	497	499	502	224
35°	431	435	444	453	457	270
45°	362	368	382	401	412	279
55°	279	288	319	351	368	250
65°	185	203	253	293	314	184
75°	91	121	171	206	217	98
85°	23	32	40	41	44	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	549.3	549.3	549.3	549.3	549.3
2.5°	545.5	546.8	549.3	549.3	550.6
5°	544.2	545.5	548.0	548.0	548.0
7.5°	540.3	541.6	544.2	545.5	545.5
10°	536.5	537.8	540.3	541.6	542.9
12.5°	530.0	531.3	535.2	537.8	537.8
15°	523.6	524.9	528.7	531.3	532.6
17.5°	515.9	518.5	522.3	524.9	526.2
20°	505.6	508.2	513.3	517.2	518.5
22.5°	496.6	499.2	504.3	508.2	510.7
25°	486.3	488.9	496.6	499.2	501.7
27.5°	473.4	476.0	482.4	487.6	491.4
30°	460.6	463.1	470.9	477.3	479.9
32.5°	446.4	450.3	459.3	464.4	468.3
35°	431.0	434.8	443.8	452.8	456.7
37.5°	415.5	419.4	428.4	440.0	445.1
40°	397.5	402.7	414.2	429.7	432.3
42.5°	380.8	387.2	397.5	415.5	422.0
45°	361.5	367.9	382.1	401.4	411.7
47.5°	343.5	349.9	365.4	388.5	401.4
50°	321.6	330.6	349.9	376.9	389.8
52.5°	301.0	308.8	334.5	364.1	379.5
55°	279.2	288.2	319.0	351.2	367.9
57.5°	259.9	267.6	302.3	338.3	357.6
60°	235.4	245.7	285.6	324.2	343.5
62.5°	209.7	225.1	268.9	308.8	329.3
65°	185.3	203.3	253.4	293.3	313.9
67.5°	163.4	182.7	234.1	276.6	295.9
70°	137.7	162.1	214.8	256.0	277.9
72.5°	114.5	141.5	193.0	234.1	253.4
75°	91.3	120.9	171.1	205.8	217.4
77.5°	70.8	99.1	146.7	157.0	158.2
80°	52.7	78.5	109.4	110.6	114.5
82.5°	36.0	55.3	70.8	77.2	78.5
85°	23.2	32.2	39.9	41.2	43.7
87.5°	10.3	11.6	14.2	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)