

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: P390768

Luminaire Tested: **22CZ2-85VHE-RDP-UNV-L935-CD1-SDWPD1-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: P390768
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: 22CZ2-85VHE-RDP-UNV-L935-CD1-SDWPD1-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: 4779.7 lumens
Efficiency: N/A
Efficacy: 75.2 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

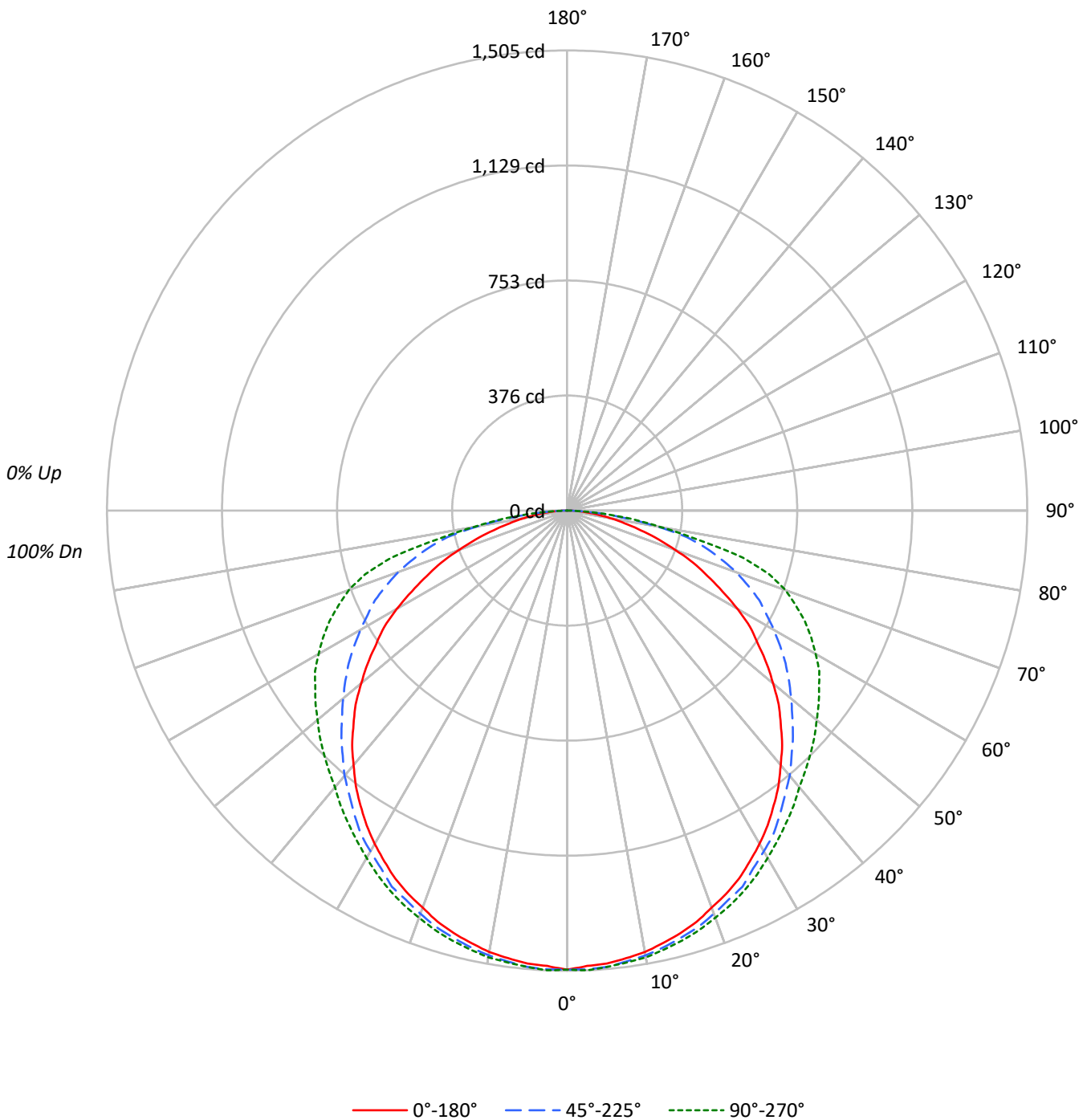
Input Watts (W): 63.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4040	4040	4040
5°	4018	4046	4046
10°	4006	4035	4054
15°	3987	4026	4055
20°	3957	4017	4058
25°	3946	4030	4072
30°	3911	3999	4075
35°	3869	3985	4100
40°	3817	3977	4150
45°	3760	3974	4282
50°	3680	4004	4460
55°	3580	4091	4718
60°	3463	4201	5053
65°	3224	4411	5463
70°	2960	4620	5976
75°	2595	4862	6178
80°	2235	4632	4849
85°	1954	3365	3690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.0
10°-20°	407.8	8.5
20°-30°	622.1	13.0
30°-40°	759.6	15.9
40°-50°	812.2	17.0
50°-60°	784.0	16.4
60°-70°	674.9	14.1
70°-80°	456.6	9.6
80°-90°	120.5	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°	1171.9	24.5
0°-40°	1931.6	40.4
0°-60°	3527.8	73.8
0°-90°	4779.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4779.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1487	1491	1498	1498	1498	141
15°	1431	1435	1445	1452	1456	404
25°	1329	1336	1357	1364	1371	612
35°	1178	1188	1213	1238	1248	737
45°	988	1006	1044	1097	1125	763
55°	763	788	872	960	1006	684
65°	506	556	693	802	858	504
75°	250	330	468	563	594	268
85°	63	88	109	112	120	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.4	1501.4	1501.4	1501.4	1501.4
2.5°	1490.8	1494.4	1501.4	1501.4	1504.9
5°	1487.3	1490.8	1497.9	1497.9	1497.9
7.5°	1476.8	1480.3	1487.3	1490.8	1490.8
10°	1466.2	1469.7	1476.8	1480.3	1483.8
12.5°	1448.6	1452.2	1462.7	1469.7	1469.7
15°	1431.1	1434.6	1445.1	1452.2	1455.7
17.5°	1410.0	1417.0	1427.5	1434.6	1438.1
20°	1381.8	1388.9	1402.9	1413.5	1417.0
22.5°	1357.2	1364.3	1378.3	1388.9	1395.9
25°	1329.1	1336.1	1357.2	1364.3	1371.3
27.5°	1293.9	1301.0	1318.5	1332.6	1343.2
30°	1258.8	1265.8	1286.9	1304.5	1311.5
32.5°	1220.1	1230.6	1255.3	1269.3	1279.9
35°	1177.9	1188.5	1213.1	1237.7	1248.2
37.5°	1135.7	1146.3	1170.9	1202.5	1216.6
40°	1086.5	1100.5	1132.2	1174.4	1181.4
42.5°	1040.8	1058.4	1086.5	1135.7	1153.3
45°	988.0	1005.6	1044.3	1097.0	1125.2
47.5°	938.8	956.4	998.6	1061.9	1097.0
50°	879.0	903.6	956.4	1030.2	1065.4
52.5°	822.8	843.9	914.2	995.1	1037.3
55°	763.0	787.6	872.0	959.9	1005.6
57.5°	710.3	731.4	826.3	924.7	977.5
60°	643.5	671.6	780.6	886.1	938.8
62.5°	573.1	615.3	734.9	843.9	900.1
65°	506.3	555.5	692.7	801.7	857.9
67.5°	446.5	499.3	639.9	756.0	808.7
70°	376.2	443.0	587.2	699.7	759.5
72.5°	312.9	386.8	527.4	639.9	692.7
75°	249.6	330.5	467.6	562.6	594.2
77.5°	193.4	270.7	400.8	429.0	432.5
80°	144.2	214.5	298.9	302.4	312.9
82.5°	98.5	151.2	193.4	211.0	214.5
85°	63.3	87.9	109.0	112.5	119.5
87.5°	28.1	31.6	38.7	35.2	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)