

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: P390765

Luminaire Tested: **22CZ2-85VHE-RDP-UNV-L930-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: P390765
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-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4664.3 lumens
Efficiency: N/A
Efficacy: 73.3 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

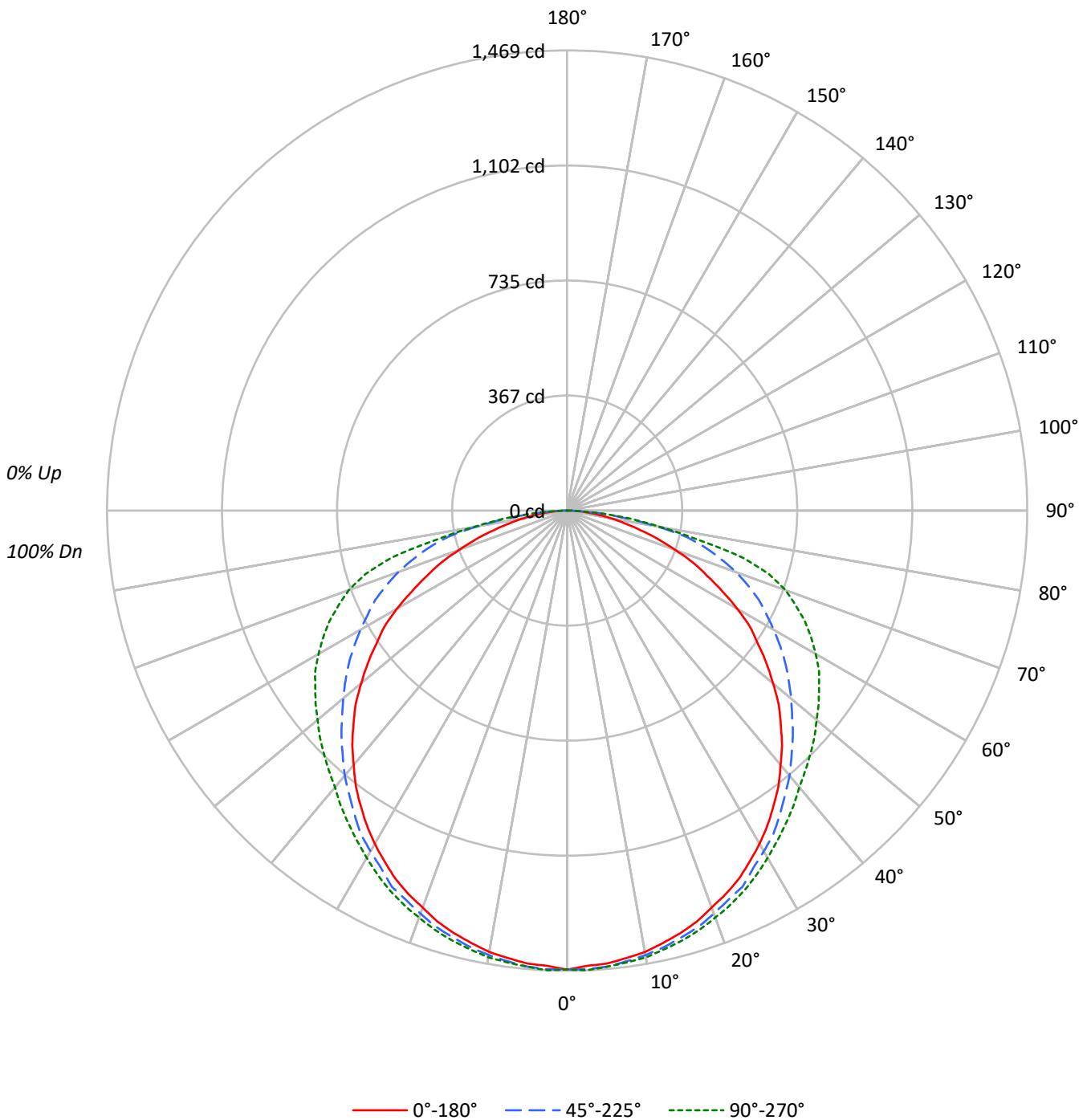
Input Watts (W): 63.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3943	3943	3943
5°	3921	3948	3948
10°	3910	3938	3957
15°	3891	3929	3957
20°	3862	3921	3960
25°	3851	3933	3973
30°	3817	3902	3977
35°	3776	3889	4002
40°	3725	3881	4050
45°	3669	3878	4179
50°	3591	3907	4353
55°	3493	3992	4604
60°	3379	4099	4930
65°	3146	4304	5331
70°	2888	4508	5831
75°	2533	4745	6029
80°	2180	4520	4733
85°	1908	3285	3603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	3.0
10°-20°	397.9	8.5
20°-30°	607.1	13.0
30°-40°	741.3	15.9
40°-50°	792.6	17.0
50°-60°	765.0	16.4
60°-70°	658.6	14.1
70°-80°	445.6	9.6
80°-90°	117.6	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°	1143.6	24.5
0°-40°	1884.9	40.4
0°-60°	3442.6	73.8
0°-90°	4664.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4664.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1451	1455	1462	1462	1462	138
15°	1396	1400	1410	1417	1420	394
25°	1297	1304	1324	1331	1338	597
35°	1150	1160	1184	1208	1218	719
45°	964	981	1019	1070	1098	744
55°	745	769	851	937	981	667
65°	494	542	676	782	837	491
75°	244	322	456	549	580	261
85°	62	86	106	110	117	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.1	1465.1	1465.1	1465.1	1465.1
2.5°	1454.8	1458.3	1465.1	1465.1	1468.6
5°	1451.4	1454.8	1461.7	1461.7	1461.7
7.5°	1441.1	1444.6	1451.4	1454.8	1454.8
10°	1430.8	1434.3	1441.1	1444.6	1448.0
12.5°	1413.7	1417.1	1427.4	1434.3	1434.3
15°	1396.5	1399.9	1410.2	1417.1	1420.5
17.5°	1375.9	1382.8	1393.1	1399.9	1403.4
20°	1348.5	1355.3	1369.1	1379.4	1382.8
22.5°	1324.5	1331.3	1345.0	1355.3	1362.2
25°	1297.0	1303.9	1324.5	1331.3	1338.2
27.5°	1262.7	1269.6	1286.7	1300.4	1310.7
30°	1228.4	1235.2	1255.8	1273.0	1279.9
32.5°	1190.6	1200.9	1225.0	1238.7	1249.0
35°	1149.5	1159.8	1183.8	1207.8	1218.1
37.5°	1108.3	1118.6	1142.6	1173.5	1187.2
40°	1060.3	1074.0	1104.9	1146.0	1152.9
42.5°	1015.6	1032.8	1060.3	1108.3	1125.4
45°	964.2	981.3	1019.1	1070.5	1098.0
47.5°	916.1	933.3	974.5	1036.2	1070.5
50°	857.8	881.8	933.3	1005.4	1039.7
52.5°	802.9	823.5	892.1	971.0	1012.2
55°	744.6	768.6	850.9	936.7	981.3
57.5°	693.1	713.7	806.3	902.4	953.9
60°	627.9	655.4	761.7	864.7	916.1
62.5°	559.3	600.5	717.1	823.5	878.4
65°	494.1	542.1	676.0	782.3	837.2
67.5°	435.8	487.2	624.5	737.7	789.2
70°	367.1	432.3	573.0	682.8	741.1
72.5°	305.4	377.4	514.7	624.5	676.0
75°	243.6	322.5	456.4	549.0	579.9
77.5°	188.7	264.2	391.2	418.6	422.0
80°	140.7	209.3	291.7	295.1	305.4
82.5°	96.1	147.5	188.7	205.9	209.3
85°	61.8	85.8	106.4	109.8	116.7
87.5°	27.4	30.9	37.7	34.3	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)