

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: P390766

Luminaire Tested: **22CZ2-85VHE-RDP-UNV-L930-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: P390766  
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-SWPD1-U  
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

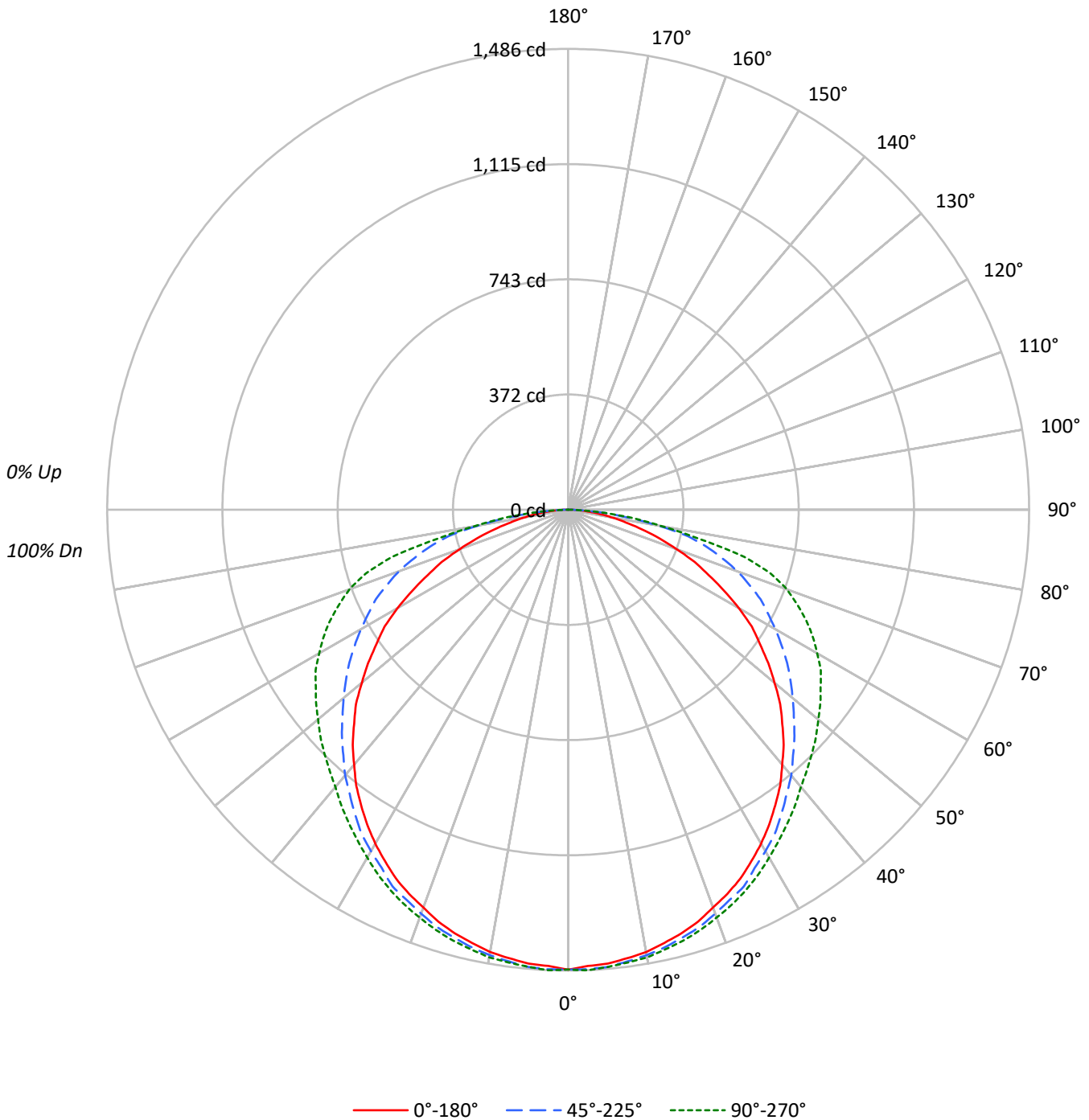
Lumens per Lamp: N/A  
Luminaire Lumens: 4721.3 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 63.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	3991	3991	3991
5°	3968	3997	3997
10°	3957	3986	4005
15°	3938	3977	4006
20°	3909	3968	4008
25°	3898	3980	4022
30°	3864	3950	4025
35°	3822	3936	4051
40°	3770	3929	4099
45°	3714	3925	4230
50°	3635	3955	4406
55°	3536	4041	4660
60°	3421	4149	4991
65°	3184	4357	5396
70°	2924	4563	5902
75°	2564	4802	6103
80°	2207	4575	4790
85°	1930	3325	3646



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.3	3.0
10°-20°	402.8	8.5
20°-30°	614.5	13.0
30°-40°	750.3	15.9
40°-50°	802.3	17.0
50°-60°	774.4	16.4
60°-70°	666.6	14.1
70°-80°	451.0	9.6
80°-90°	119.0	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°	1157.6	24.5
0°-40°	1907.9	40.4
0°-60°	3484.6	73.8
0°-90°	4721.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4721.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1469	1473	1480	1480	1480	140
15°	1414	1417	1428	1434	1438	399
25°	1313	1320	1341	1348	1354	604
35°	1164	1174	1198	1223	1233	728
45°	976	993	1032	1084	1111	753
55°	754	778	861	948	993	675
65°	500	549	684	792	848	497
75°	247	326	462	556	587	265
85°	62	87	108	111	118	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1483.0	1483.0	1483.0	1483.0	1483.0
2.5°	1472.6	1476.1	1483.0	1483.0	1486.5
5°	1469.1	1472.6	1479.6	1479.6	1479.6
7.5°	1458.7	1462.2	1469.1	1472.6	1472.6
10°	1448.3	1451.8	1458.7	1462.2	1465.7
12.5°	1430.9	1434.4	1444.8	1451.8	1451.8
15°	1413.6	1417.1	1427.5	1434.4	1437.9
17.5°	1392.7	1399.7	1410.1	1417.1	1420.5
20°	1365.0	1371.9	1385.8	1396.2	1399.7
22.5°	1340.6	1347.6	1361.5	1371.9	1378.8
25°	1312.9	1319.8	1340.6	1347.6	1354.5
27.5°	1278.1	1285.1	1302.4	1316.3	1326.8
30°	1243.4	1250.3	1271.2	1288.5	1295.5
32.5°	1205.2	1215.6	1239.9	1253.8	1264.2
35°	1163.5	1173.9	1198.2	1222.6	1233.0
37.5°	1121.8	1132.3	1156.6	1187.8	1201.7
40°	1073.2	1087.1	1118.4	1160.0	1167.0
42.5°	1028.1	1045.4	1073.2	1121.8	1139.2
45°	976.0	993.3	1031.5	1083.6	1111.4
47.5°	927.3	944.7	986.4	1048.9	1083.6
50°	868.3	892.6	944.7	1017.6	1052.4
52.5°	812.7	833.6	903.0	982.9	1024.6
55°	753.7	778.0	861.3	948.2	993.3
57.5°	701.6	722.4	816.2	913.4	965.5
60°	635.6	663.4	771.0	875.2	927.3
62.5°	566.1	607.8	725.9	833.6	889.1
65°	500.1	548.8	684.2	791.9	847.5
67.5°	441.1	493.2	632.1	746.7	798.8
70°	371.6	437.6	580.0	691.2	750.2
72.5°	309.1	382.0	521.0	632.1	684.2
75°	246.6	326.5	461.9	555.7	587.0
77.5°	191.0	267.4	395.9	423.7	427.2
80°	142.4	211.9	295.2	298.7	309.1
82.5°	97.2	149.3	191.0	208.4	211.9
85°	62.5	86.8	107.7	111.1	118.1
87.5°	27.8	31.3	38.2	34.7	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)