

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: P390776

Luminaire Tested: **22CZ2-85VHE-RDP-UNV-L950-CD1-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: P390776
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-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5253.6 lumens
Efficiency: N/A
Efficacy: 82.6 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

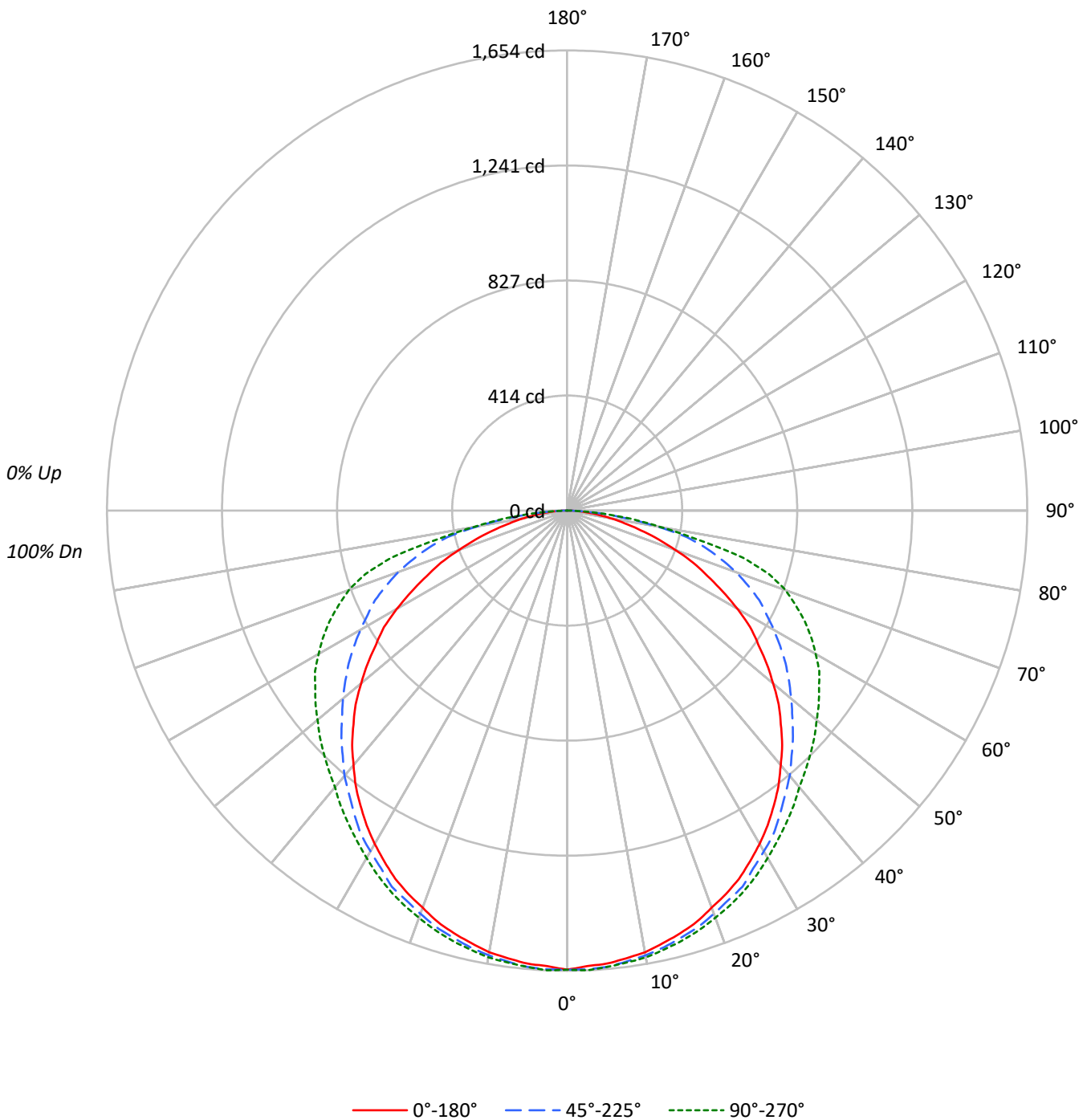
Input Watts (W): 63.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4441	4441	4441
5°	4416	4447	4447
10°	4404	4435	4456
15°	4382	4425	4457
20°	4349	4416	4460
25°	4338	4429	4475
30°	4299	4395	4479
35°	4253	4380	4507
40°	4195	4371	4562
45°	4133	4368	4706
50°	4045	4401	4902
55°	3935	4497	5186
60°	3806	4618	5554
65°	3543	4848	6004
70°	3253	5078	6568
75°	2853	5344	6790
80°	2456	5091	5331
85°	2149	3699	4057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.0
10°-20°	448.2	8.5
20°-30°	683.8	13.0
30°-40°	835.0	15.9
40°-50°	892.8	17.0
50°-60°	861.7	16.4
60°-70°	741.8	14.1
70°-80°	501.9	9.6
80°-90°	132.4	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°	1288.1	24.5
0°-40°	2123.1	40.4
0°-60°	3877.5	73.8
0°-90°	5253.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5253.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1635	1639	1646	1646	1646	155
15°	1573	1577	1588	1596	1600	444
25°	1461	1469	1492	1500	1507	672
35°	1295	1306	1333	1360	1372	810
45°	1086	1105	1148	1206	1237	838
55°	839	866	958	1055	1105	752
65°	556	611	761	881	943	553
75°	274	363	514	618	653	294
85°	70	97	120	124	131	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.2	1650.2	1650.2	1650.2	1650.2
2.5°	1638.7	1642.5	1650.2	1650.2	1654.1
5°	1634.8	1638.7	1646.4	1646.4	1646.4
7.5°	1623.2	1627.1	1634.8	1638.7	1638.7
10°	1611.6	1615.5	1623.2	1627.1	1630.9
12.5°	1592.3	1596.1	1607.7	1615.5	1615.5
15°	1573.0	1576.8	1588.4	1596.1	1600.0
17.5°	1549.8	1557.5	1569.1	1576.8	1580.7
20°	1518.8	1526.6	1542.0	1553.6	1557.5
22.5°	1491.8	1499.5	1515.0	1526.6	1534.3
25°	1460.9	1468.6	1491.8	1499.5	1507.3
27.5°	1422.2	1430.0	1449.3	1464.7	1476.3
30°	1383.6	1391.3	1414.5	1433.8	1441.6
32.5°	1341.1	1352.7	1379.7	1395.2	1406.8
35°	1294.7	1306.3	1333.3	1360.4	1372.0
37.5°	1248.3	1259.9	1287.0	1321.7	1337.2
40°	1194.2	1209.7	1244.4	1290.8	1298.6
42.5°	1144.0	1163.3	1194.2	1248.3	1267.6
45°	1086.0	1105.3	1147.8	1205.8	1236.7
47.5°	1031.9	1051.2	1097.6	1167.2	1205.8
50°	966.2	993.2	1051.2	1132.4	1171.0
52.5°	904.4	927.5	1004.8	1093.7	1140.1
55°	838.7	865.7	958.5	1055.1	1105.3
57.5°	780.7	803.9	908.2	1016.4	1074.4
60°	707.2	738.2	858.0	973.9	1031.9
62.5°	630.0	676.3	807.7	927.5	989.4
65°	556.5	610.6	761.4	881.2	943.0
67.5°	490.8	548.8	703.4	830.9	888.9
70°	413.5	487.0	645.4	769.1	834.8
72.5°	344.0	425.1	579.7	703.4	761.4
75°	274.4	363.3	514.0	618.4	653.1
77.5°	212.6	297.6	440.6	471.5	475.4
80°	158.5	235.7	328.5	332.4	344.0
82.5°	108.2	166.2	212.6	231.9	235.7
85°	69.6	96.6	119.8	123.7	131.4
87.5°	30.9	34.8	42.5	38.6	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)