

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: P390051

Luminaire Tested: **22CZ2-100VHE-RDP-UNV-L940-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: P390051
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: 22CZ2-100VHE-RDP-UNV-L940-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5666.1 lumens
Efficiency: N/A
Efficacy: 72.9 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

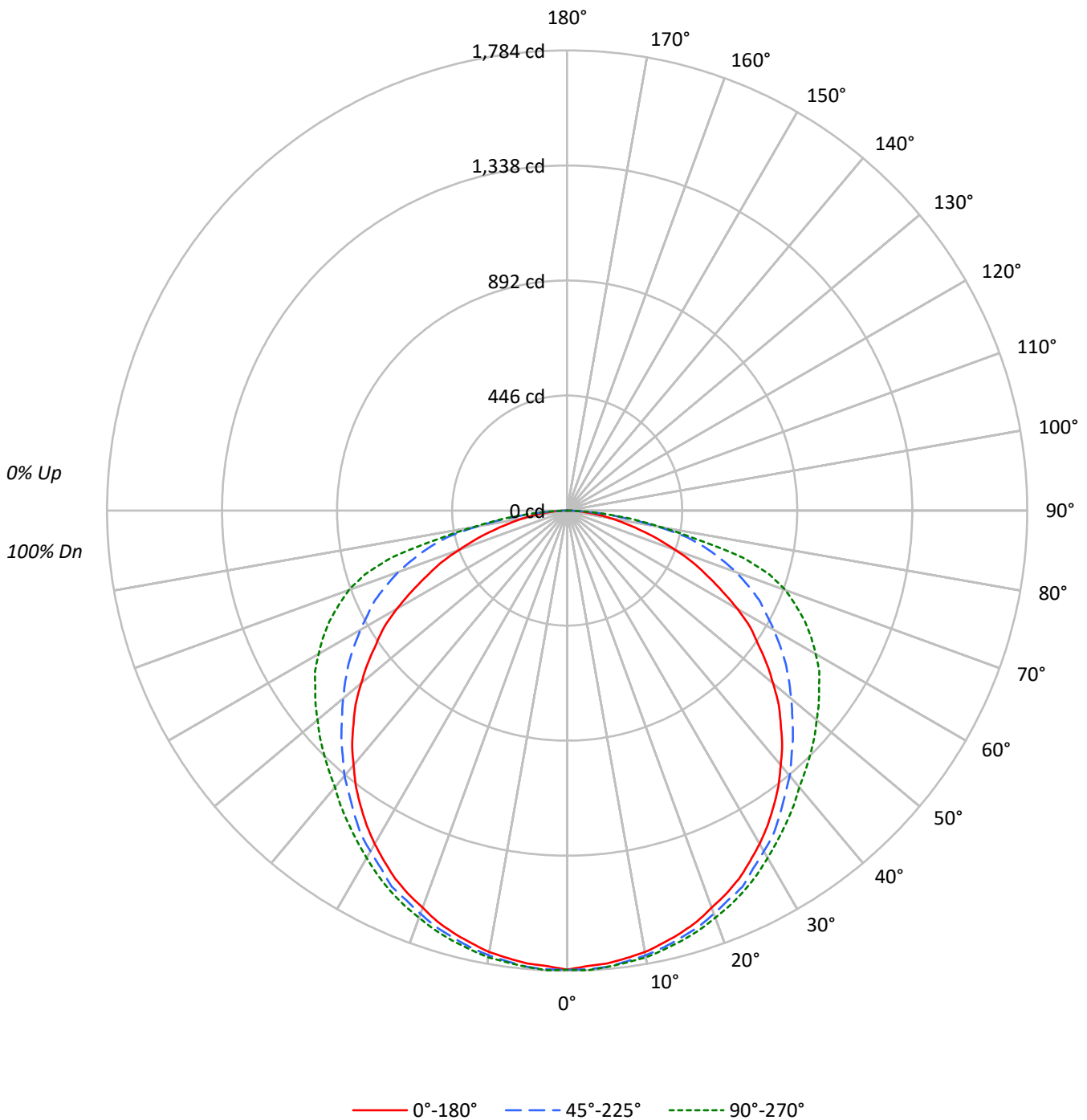
Input Watts (W): 77.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4789	4789	4789
5°	4763	4797	4797
10°	4749	4783	4806
15°	4726	4773	4807
20°	4691	4763	4810
25°	4678	4777	4827
30°	4637	4740	4831
35°	4587	4724	4861
40°	4525	4715	4920
45°	4458	4711	5076
50°	4362	4746	5287
55°	4244	4850	5593
60°	4105	4980	5990
65°	3822	5228	6476
70°	3509	5477	7083
75°	3077	5764	7324
80°	2648	5490	5749
85°	2316	3989	4375



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	3.0
10°-20°	483.4	8.5
20°-30°	737.5	13.0
30°-40°	900.5	15.9
40°-50°	962.9	17.0
50°-60°	929.4	16.4
60°-70°	800.0	14.1
70°-80°	541.3	9.6
80°-90°	142.8	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°	1389.3	24.5
0°-40°	2289.8	40.4
0°-60°	4182.0	73.8
0°-90°	5666.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5666.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1763	1767	1776	1776	1776	167
15°	1696	1701	1713	1722	1726	479
25°	1576	1584	1609	1617	1626	725
35°	1396	1409	1438	1467	1480	874
45°	1171	1192	1238	1300	1334	904
55°	904	934	1034	1138	1192	811
65°	600	659	821	950	1017	597
75°	296	392	554	667	704	318
85°	75	104	129	133	142	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1779.8	1779.8	1779.8	1779.8	1779.8
2.5°	1767.3	1771.5	1779.8	1779.8	1784.0
5°	1763.1	1767.3	1775.7	1775.7	1775.7
7.5°	1750.6	1754.8	1763.1	1767.3	1767.3
10°	1738.1	1742.3	1750.6	1754.8	1759.0
12.5°	1717.3	1721.5	1734.0	1742.3	1742.3
15°	1696.5	1700.6	1713.1	1721.5	1725.6
17.5°	1671.4	1679.8	1692.3	1700.6	1704.8
20°	1638.1	1646.4	1663.1	1675.6	1679.8
22.5°	1608.9	1617.3	1633.9	1646.4	1654.8
25°	1575.6	1583.9	1608.9	1617.3	1625.6
27.5°	1533.9	1542.2	1563.1	1579.7	1592.3
30°	1492.2	1500.6	1525.6	1546.4	1554.7
32.5°	1446.4	1458.9	1488.0	1504.7	1517.2
35°	1396.3	1408.9	1438.0	1467.2	1479.7
37.5°	1346.3	1358.8	1388.0	1425.5	1442.2
40°	1288.0	1304.6	1342.2	1392.2	1400.5
42.5°	1233.8	1254.6	1288.0	1346.3	1367.2
45°	1171.3	1192.1	1238.0	1300.5	1333.8
47.5°	1112.9	1133.7	1183.8	1258.8	1300.5
50°	1042.0	1071.2	1133.7	1221.3	1263.0
52.5°	975.4	1000.4	1083.7	1179.6	1229.6
55°	904.5	933.7	1033.7	1137.9	1192.1
57.5°	842.0	867.0	979.5	1096.2	1158.8
60°	762.8	796.1	925.3	1050.4	1112.9
62.5°	679.4	729.4	871.2	1000.4	1067.1
65°	600.2	658.6	821.1	950.3	1017.0
67.5°	529.4	591.9	758.6	896.2	958.7
70°	446.0	525.2	696.1	829.5	900.3
72.5°	371.0	458.5	625.2	758.6	821.1
75°	295.9	391.8	554.4	666.9	704.4
77.5°	229.3	321.0	475.2	508.5	512.7
80°	170.9	254.3	354.3	358.5	371.0
82.5°	116.7	179.2	229.3	250.1	254.3
85°	75.0	104.2	129.2	133.4	141.7
87.5°	33.3	37.5	45.9	41.7	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)