

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: P881246

Luminaire Tested: **24CZ2-60VHE-RDP-UNV-B40**

Issue Date: 10/2/2024

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: P881246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60VHE-RDP-UNV-B40
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

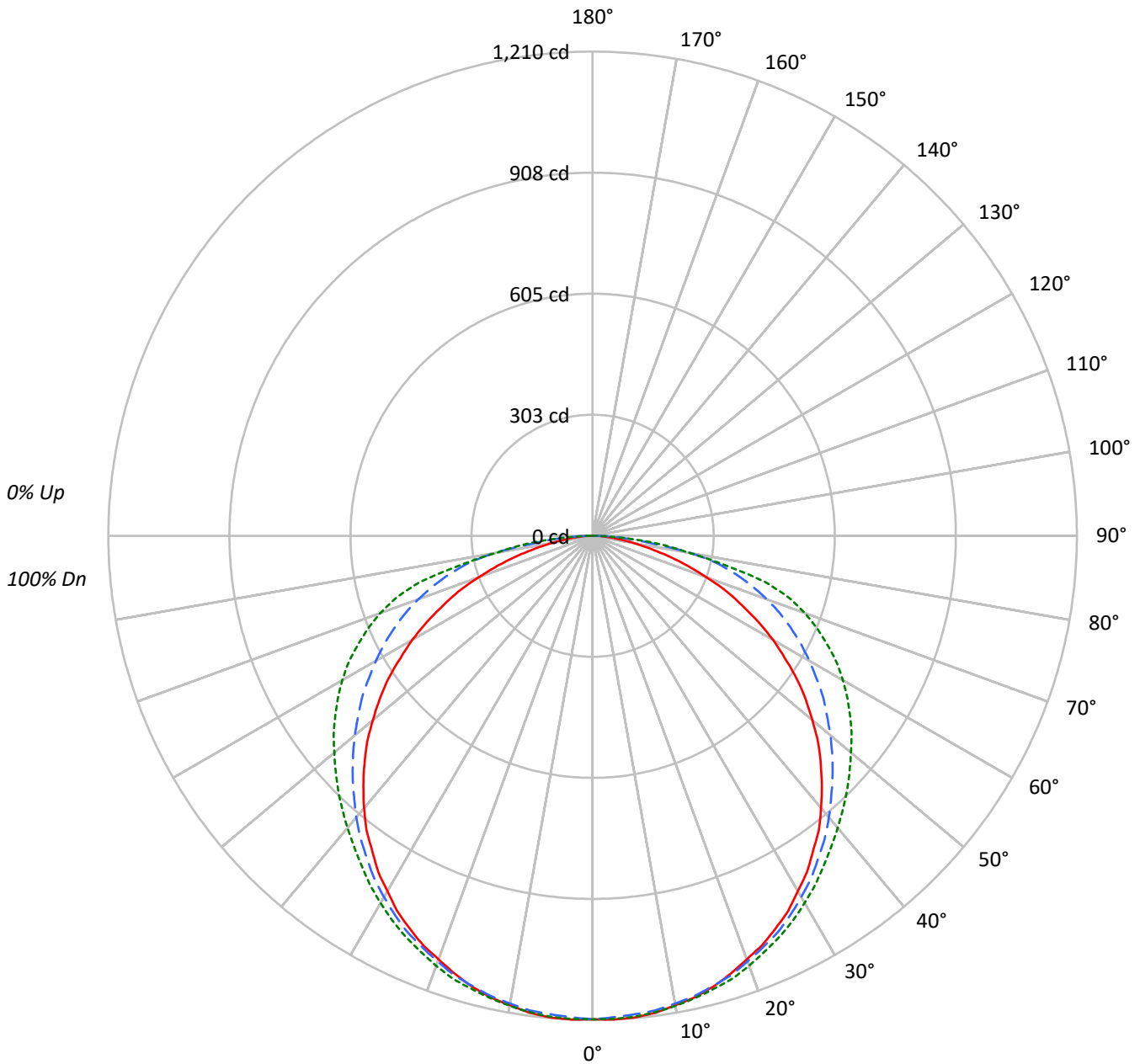
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	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	93	89	92	89	87	88	86	84	82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			
9	55	41	33	27	53	40	32	27	39	32	27	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°	1705	1705	1705
5°	1712	1701	1709
10°	1707	1701	1710
15°	1704	1701	1712
20°	1691	1700	1717
25°	1686	1703	1721
30°	1671	1699	1727
35°	1655	1694	1734
40°	1636	1692	1755
45°	1609	1693	1795
50°	1573	1703	1850
55°	1533	1730	1932
60°	1469	1764	2039
65°	1375	1826	2164
70°	1250	1911	2327
75°	1060	2017	2433
80°	836	2028	1966
85°	617	1543	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	3.0
10°-20°	329.9	8.6
20°-30°	504.4	13.1
30°-40°	616.6	16.0
40°-50°	657.2	17.1
50°-60°	628.3	16.4
60°-70°	532.3	13.9
70°-80°	357.8	9.3
80°-90°	100.9	2.6
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°	948.9	24.7
0°-40°	1565.5	40.7
0°-60°	2851.0	74.2
0°-90°	3842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1208	1206	1201	1206	1206	115
15°	1166	1166	1164	1174	1172	329
25°	1082	1086	1094	1103	1105	499
35°	960	968	983	1002	1006	602
45°	806	820	848	884	899	622
55°	623	646	703	758	785	555
65°	412	454	547	619	648	409
75°	194	265	370	433	446	208
85°	38	78	95	103	107	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.3	1208.3	1208.3	1208.3	1208.3
2.5°	1210.1	1210.1	1204.4	1208.3	1208.3
5°	1208.3	1206.4	1200.6	1206.4	1206.4
7.5°	1202.5	1200.6	1196.7	1202.5	1200.6
10°	1191.1	1191.1	1187.2	1193.0	1193.0
12.5°	1181.5	1179.6	1177.8	1185.4	1183.5
15°	1166.2	1166.2	1164.4	1173.8	1172.0
17.5°	1147.2	1149.1	1151.1	1158.8	1160.6
20°	1126.2	1130.1	1132.0	1143.5	1143.5
22.5°	1107.2	1109.1	1113.0	1124.3	1124.3
25°	1082.5	1086.2	1093.8	1103.3	1105.4
27.5°	1057.5	1059.6	1069.1	1082.5	1084.3
30°	1025.2	1030.9	1042.5	1057.5	1059.6
32.5°	996.7	1002.3	1015.7	1030.9	1034.8
35°	960.4	968.0	983.3	1002.3	1006.2
37.5°	928.0	933.6	952.8	973.8	979.4
40°	888.2	899.4	918.5	943.3	952.8
42.5°	848.0	859.5	882.4	914.6	926.0
45°	806.1	819.5	848.0	884.3	899.4
47.5°	764.3	779.5	811.9	853.8	870.9
50°	716.4	735.6	775.6	823.3	842.4
52.5°	670.8	693.7	737.5	790.9	815.6
55°	623.0	645.9	703.2	758.5	785.1
57.5°	569.8	600.1	663.2	726.1	754.6
60°	520.3	548.8	625.1	693.7	722.2
62.5°	466.9	505.0	586.9	659.3	688.0
65°	411.6	453.7	546.9	619.3	648.0
67.5°	362.1	407.9	506.9	579.3	607.8
70°	303.0	360.1	463.2	535.4	564.0
72.5°	247.7	310.6	417.4	487.9	514.5
75°	194.3	264.8	369.8	432.7	446.1
77.5°	145.0	219.0	320.1	346.9	337.4
80°	102.9	175.5	249.5	236.1	241.9
82.5°	66.8	133.4	154.5	175.5	180.9
85°	38.1	78.2	95.3	102.9	106.8
87.5°	17.1	28.7	38.1	38.1	36.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)