

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: P880933

Luminaire Tested: **24CZ2-55VHE-RDP-B2750-W2D-3000K**

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: P880933
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: 24CZ2-55VHE-RDP-B2750-W2D-3000K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

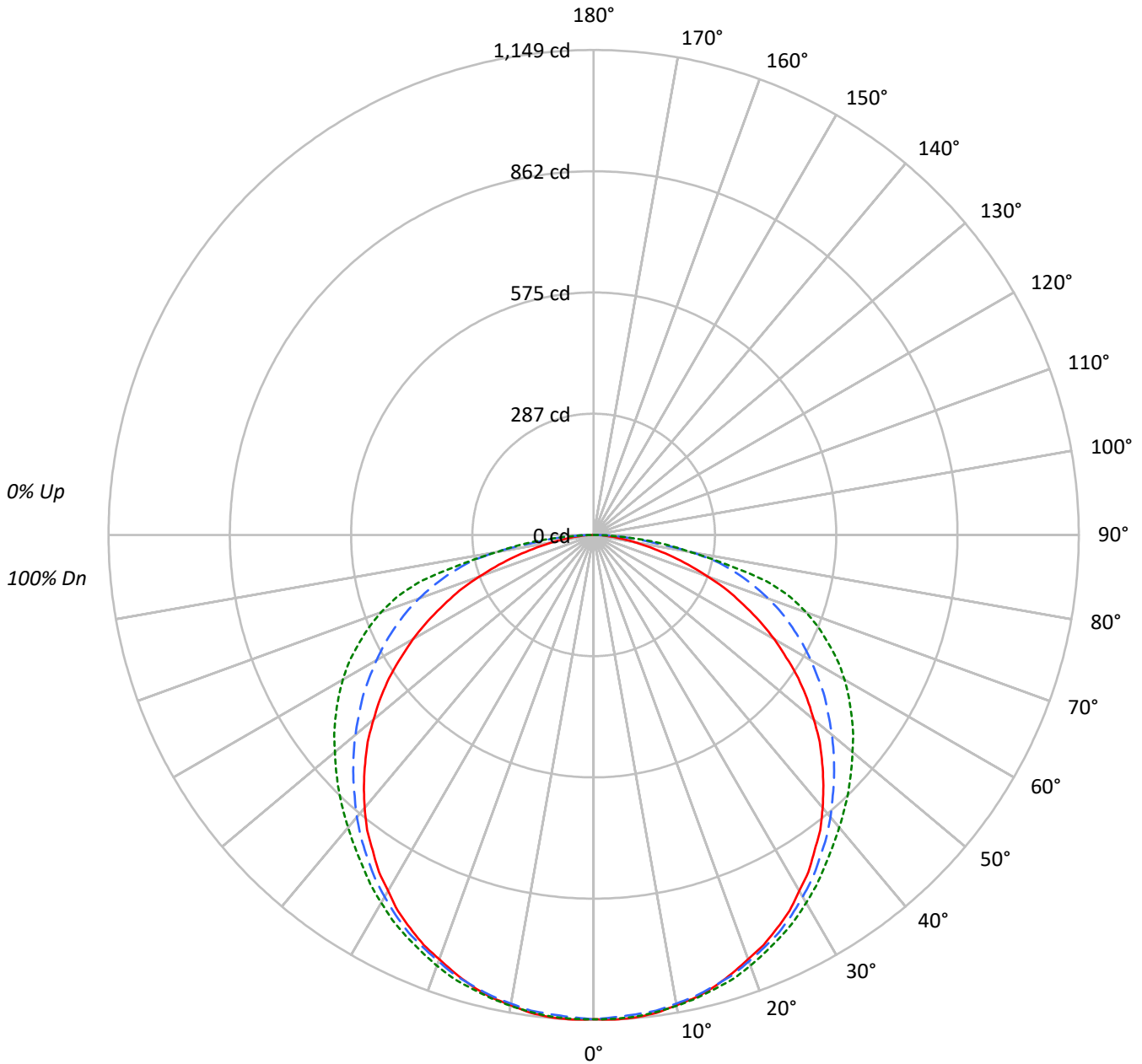
Lumens per Lamp: N/A
Luminaire Lumens: 3649.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 43
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°	1620	1620	1620
5°	1626	1615	1623
10°	1621	1616	1624
15°	1618	1616	1626
20°	1606	1615	1631
25°	1601	1618	1635
30°	1587	1614	1640
35°	1572	1609	1646
40°	1554	1607	1667
45°	1528	1608	1705
50°	1494	1618	1757
55°	1456	1643	1835
60°	1395	1676	1936
65°	1305	1735	2055
70°	1187	1815	2211
75°	1006	1915	2310
80°	794	1926	1868
85°	586	1465	1642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	3.0
10°-20°	313.3	8.6
20°-30°	479.1	13.1
30°-40°	585.6	16.0
40°-50°	624.2	17.1
50°-60°	596.8	16.4
60°-70°	505.6	13.9
70°-80°	339.8	9.3
80°-90°	95.9	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°	901.2	24.7
0°-40°	1486.8	40.7
0°-60°	2707.8	74.2
0°-90°	3649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1148	1146	1140	1146	1146	109
15°	1108	1108	1106	1115	1113	312
25°	1028	1032	1039	1048	1050	474
35°	912	919	934	952	956	571
45°	766	778	805	840	854	591
55°	592	614	668	720	746	527
65°	391	431	519	588	615	388
75°	184	252	351	411	424	198
85°	36	74	90	98	101	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1149.3	1149.3	1143.9	1147.6	1147.6
5°	1147.6	1145.8	1140.3	1145.8	1145.8
7.5°	1142.1	1140.3	1136.6	1142.1	1140.3
10°	1131.3	1131.3	1127.6	1133.1	1133.1
12.5°	1122.1	1120.4	1118.6	1125.8	1124.1
15°	1107.6	1107.6	1105.9	1114.9	1113.1
17.5°	1089.6	1091.4	1093.3	1100.6	1102.3
20°	1069.6	1073.3	1075.1	1086.1	1086.1
22.5°	1051.6	1053.4	1057.1	1067.9	1067.9
25°	1028.1	1031.6	1038.9	1047.9	1049.8
27.5°	1004.4	1006.4	1015.4	1028.1	1029.9
30°	973.7	979.1	990.1	1004.4	1006.4
32.5°	946.6	951.9	964.6	979.1	982.9
35°	912.2	919.4	933.9	951.9	955.6
37.5°	881.4	886.7	904.9	924.9	930.2
40°	843.6	854.2	872.4	895.9	904.9
42.5°	805.4	816.4	838.1	868.7	879.5
45°	765.6	778.4	805.4	839.9	854.2
47.5°	725.9	740.4	771.1	810.9	827.1
50°	680.4	698.7	736.7	781.9	800.1
52.5°	637.1	658.9	700.4	751.1	774.7
55°	591.7	613.5	667.9	720.4	745.7
57.5°	541.2	570.0	629.9	689.6	716.7
60°	494.2	521.2	593.7	658.9	685.9
62.5°	443.4	479.7	557.4	626.2	653.4
65°	390.9	430.9	519.4	588.2	615.4
67.5°	343.9	387.4	481.4	550.2	577.2
70°	287.7	342.0	439.9	508.5	535.7
72.5°	235.2	295.0	396.4	463.4	488.7
75°	184.5	251.5	351.2	410.9	423.6
77.5°	137.7	208.0	304.0	329.4	320.4
80°	97.7	166.7	237.0	224.3	229.8
82.5°	63.4	126.7	146.7	166.7	171.8
85°	36.2	74.2	90.5	97.7	101.4
87.5°	16.3	27.2	36.2	36.2	34.5
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)