

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: P880992

Luminaire Tested: **24CZ2-65VHE-SQR-B2750-W2D-2700K**

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: P880992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65VHE-SQR-B2750-W2D-2700K
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

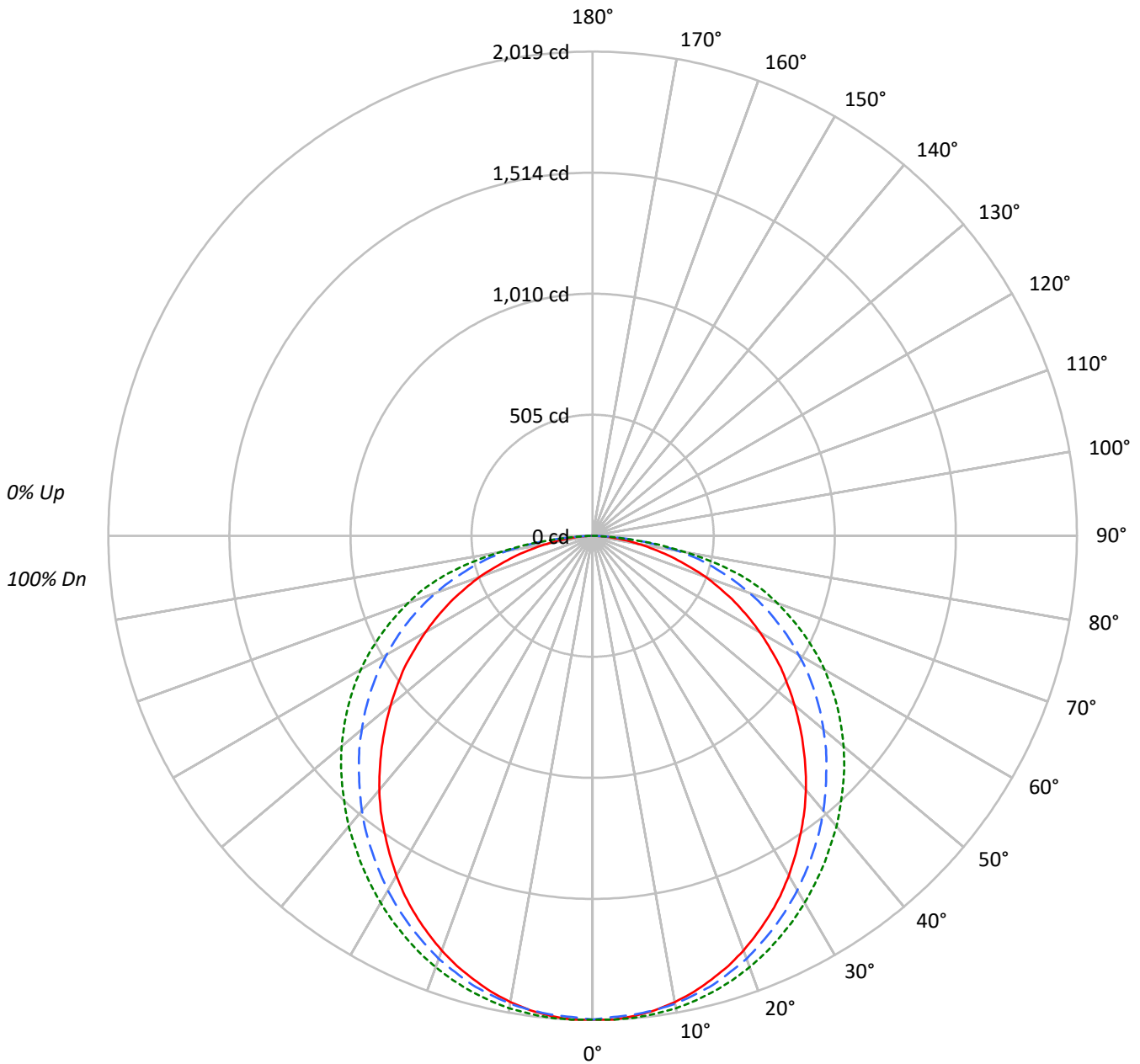
Lumens per Lamp: N/A
Luminaire Lumens: 6142.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 51
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

TEST NUMBER: P880992

CATALOG NUMBER: 24CZ2-65VHE-SQR-B2750-W2D-2700K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2847	2847	2847
5°	2847	2839	2858
10°	2829	2839	2867
15°	2799	2833	2872
20°	2763	2819	2875
25°	2718	2799	2876
30°	2666	2783	2880
35°	2605	2766	2891
40°	2549	2757	2914
45°	2480	2750	2946
50°	2413	2758	2999
55°	2357	2777	3066
60°	2276	2798	3152
65°	2186	2832	3247
70°	2073	2870	3377
75°	1857	2910	3489
80°	1564	2919	3166
85°	1159	2207	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	3.1
10°-20°	547.9	8.9
20°-30°	829.4	13.5
30°-40°	1003.4	16.3
40°-50°	1059.1	17.2
50°-60°	998.8	16.3
60°-70°	823.4	13.4
70°-80°	540.2	8.8
80°-90°	148.5	2.4
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°	1568.6	25.5
0°-40°	2571.9	41.9
0°-60°	4629.8	75.4
0°-90°	6142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2018	2018	2018	2018	2018	
5°	2010	2010	2004	2018	2018	191
15°	1915	1926	1939	1961	1966	540
25°	1746	1767	1798	1835	1847	804
35°	1512	1551	1605	1660	1678	947
45°	1242	1298	1378	1451	1476	959
55°	958	1025	1128	1213	1246	853
65°	654	733	848	938	972	646
75°	340	428	534	618	640	360
85°	72	124	136	132	128	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2017.5	2017.5	2017.5	2017.5	2017.5
2.5°	2019.3	2017.5	2008.7	2020.4	2019.3
5°	2009.5	2009.5	2003.8	2017.5	2017.5
7.5°	1995.8	1996.8	1994.8	2010.5	2010.5
10°	1974.3	1978.2	1981.1	1998.9	2000.7
12.5°	1948.7	1955.7	1961.4	1983.1	1985.2
15°	1915.4	1926.2	1938.9	1961.4	1965.5
17.5°	1881.0	1893.9	1907.6	1937.1	1942.0
20°	1839.9	1854.6	1877.1	1906.6	1914.4
22.5°	1793.8	1814.3	1837.8	1873.2	1883.0
25°	1745.7	1767.2	1797.7	1834.9	1846.6
27.5°	1693.7	1719.1	1753.5	1796.7	1809.4
30°	1635.8	1665.1	1707.4	1753.5	1767.2
32.5°	1574.8	1609.2	1656.3	1707.4	1723.0
35°	1512.2	1551.3	1605.3	1660.4	1678.0
37.5°	1450.2	1489.5	1553.3	1611.3	1627.8
40°	1383.5	1426.7	1496.4	1558.3	1581.8
42.5°	1312.9	1364.0	1437.5	1506.3	1528.8
45°	1242.3	1298.1	1377.7	1451.2	1475.8
47.5°	1170.6	1232.4	1319.8	1394.3	1422.8
50°	1099.0	1164.7	1256.0	1336.4	1365.9
52.5°	1026.4	1095.1	1194.2	1279.5	1306.1
55°	957.8	1025.3	1128.5	1212.8	1246.2
57.5°	878.2	954.7	1063.6	1149.1	1181.5
60°	806.5	881.2	991.1	1081.4	1116.6
62.5°	729.0	805.5	921.4	1011.6	1046.0
65°	654.5	733.1	847.9	938.1	972.3
67.5°	574.1	656.5	774.2	861.6	895.0
70°	502.4	580.0	695.6	785.1	818.4
72.5°	415.0	503.5	614.2	702.6	738.8
75°	340.5	427.7	533.7	618.3	639.8
77.5°	262.0	349.3	454.3	509.2	523.9
80°	192.4	274.6	359.2	388.6	389.5
82.5°	129.5	202.2	250.3	265.0	263.0
85°	71.6	123.6	136.3	132.4	128.5
87.5°	29.5	41.1	33.4	23.5	18.6
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)