

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: P731831

Luminaire Tested: **14CZ2-25-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-SQR-B2750-W2D-2700K
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

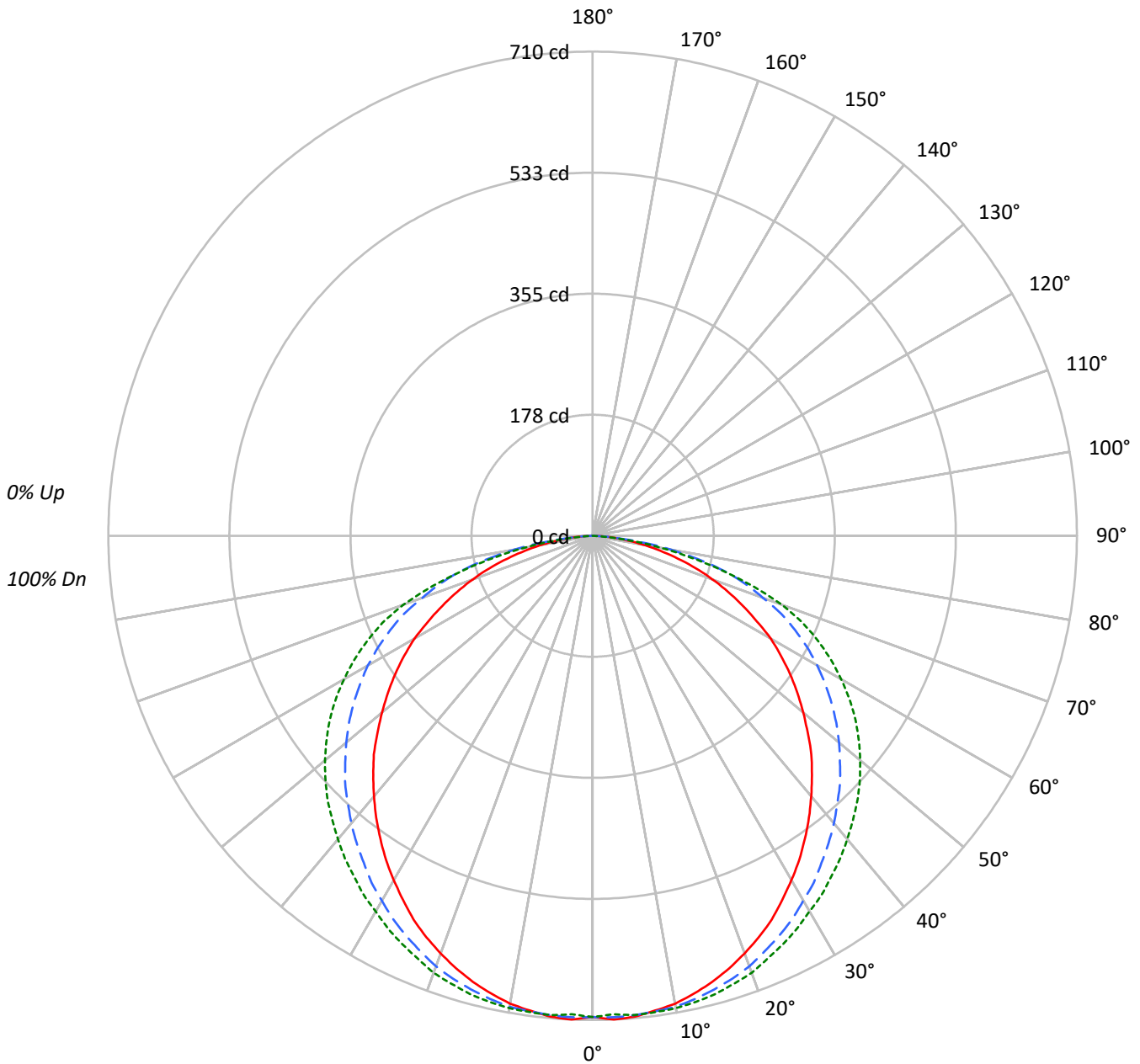
Lumens per Lamp: N/A
Luminaire Lumens: 2233.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (A_{in}): 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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	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	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48								
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41								
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35								
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28								
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25								
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1992	1992	1992
5°	2006	2000	2000
10°	1997	2010	2016
15°	1980	2013	2033
20°	1957	2018	2049
25°	1935	2015	2058
30°	1900	2014	2073
35°	1869	2017	2102
40°	1837	2028	2140
45°	1811	2049	2192
50°	1769	2071	2249
55°	1739	2105	2315
60°	1703	2147	2376
65°	1624	2187	2436
70°	1542	2191	2434
75°	1411	2186	2147
80°	1206	1866	1665
85°	949	1056	622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.0
10°-20°	193.7	8.7
20°-30°	296.3	13.3
30°-40°	363.1	16.3
40°-50°	390.5	17.5
50°-60°	375.3	16.8
60°-70°	312.5	14.0
70°-80°	191.8	8.6
80°-90°	42.7	1.9
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°	557.0	24.9
0°-40°	920.2	41.2
0°-60°	1686.0	75.5
0°-90°	2233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	708	701	706	706	706	67
15°	678	675	689	693	696	191
25°	621	627	647	655	661	286
35°	542	556	585	601	610	339
45°	454	474	513	537	549	349
55°	353	384	428	457	470	316
65°	243	280	327	355	365	241
75°	129	169	200	199	197	137
85°	29	44	33	22	19	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.7	705.7	705.7	705.7	705.7
2.5°	710.1	703.4	706.8	705.7	702.3
5°	707.9	701.2	705.7	705.7	705.7
7.5°	702.3	696.7	703.4	704.5	704.5
10°	696.7	692.2	701.2	702.3	703.4
12.5°	687.6	684.2	695.6	697.8	700.0
15°	677.5	675.3	688.7	693.2	695.6
17.5°	665.2	666.3	680.9	686.5	688.7
20°	651.6	655.0	671.9	677.5	682.0
22.5°	637.0	641.5	659.6	666.3	670.8
25°	621.2	626.8	647.1	655.0	660.7
27.5°	602.0	611.1	633.7	643.8	649.4
30°	583.0	593.1	617.9	630.2	635.9
32.5°	563.8	575.1	603.3	615.6	624.6
35°	542.5	556.0	585.2	600.9	610.0
37.5°	521.1	536.8	568.3	586.3	596.4
40°	498.5	515.5	550.3	570.5	580.7
42.5°	476.0	495.2	531.2	553.7	564.9
45°	453.6	473.9	513.2	536.8	549.2
47.5°	427.7	452.5	491.8	518.8	531.2
50°	402.9	429.9	471.5	499.7	512.1
52.5°	378.1	406.3	450.2	479.5	491.8
55°	353.3	383.7	427.7	456.9	470.4
57.5°	327.4	358.9	404.0	434.4	446.7
60°	301.6	334.3	380.4	408.5	420.9
62.5°	271.2	309.5	354.6	382.6	393.9
65°	243.1	280.2	327.4	354.6	364.7
67.5°	215.0	253.2	299.4	324.2	333.1
70°	186.8	225.1	265.5	289.2	294.9
72.5°	158.7	196.9	235.3	248.7	246.5
75°	129.4	168.9	200.4	199.3	196.9
77.5°	101.3	139.6	158.7	150.8	147.5
80°	74.2	111.5	114.8	107.0	102.4
82.5°	50.7	79.8	72.0	63.0	58.5
85°	29.3	43.8	32.6	22.5	19.2
87.5°	12.3	11.2	3.4	3.4	2.2
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)