

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: P261330

Luminaire Tested: **24CZ-LD5-70-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5860.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

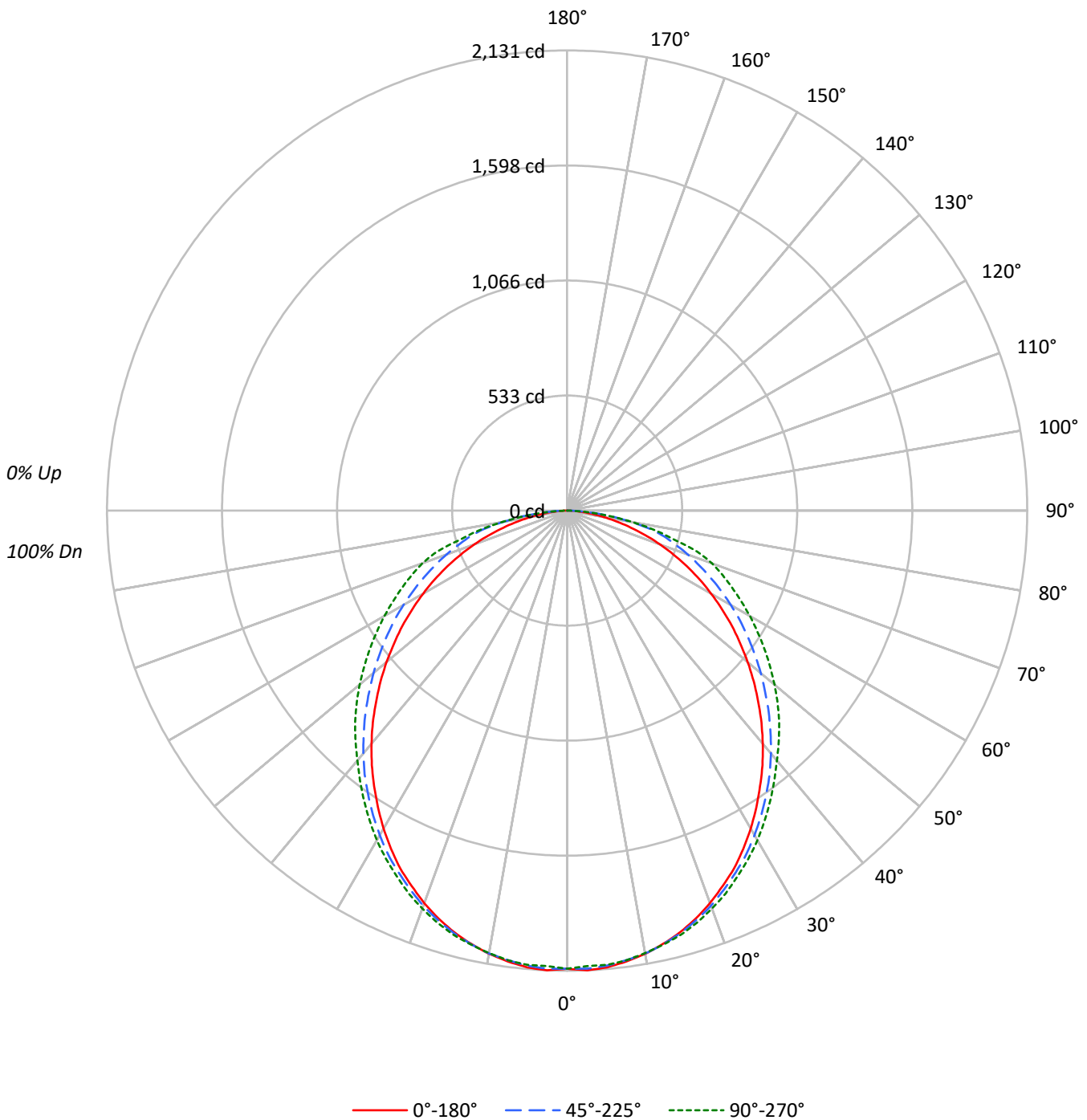
Input Watts (W): 53.196
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2854	2854	2854
5°	2868	2857	2852
10°	2848	2845	2842
15°	2817	2822	2833
20°	2769	2789	2809
25°	2715	2744	2773
30°	2642	2696	2739
35°	2559	2639	2693
40°	2476	2579	2654
45°	2382	2512	2642
50°	2286	2449	2624
55°	2186	2397	2616
60°	2073	2356	2629
65°	1949	2328	2682
70°	1795	2340	2807
75°	1591	2423	2615
80°	1330	2297	2357
85°	993	1836	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	3.4
10°-20°	570.4	9.7
20°-30°	850.1	14.5
30°-40°	1000.7	17.1
40°-50°	1016.9	17.4
50°-60°	914.3	15.6
60°-70°	722.3	12.3
70°-80°	458.2	7.8
80°-90°	126.5	2.2
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°	1621.1	27.7
0°-40°	2621.8	44.7
0°-60°	4553.0	77.7
0°-90°	5860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2121	2121	2121	2121	2121	
5°	2123	2106	2116	2112	2112	201
15°	2022	2012	2026	2032	2034	570
25°	1829	1827	1848	1860	1868	841
35°	1558	1568	1607	1624	1640	975
45°	1252	1269	1320	1359	1388	966
55°	932	955	1022	1088	1115	832
65°	612	643	731	811	842	606
75°	306	359	466	507	503	326
85°	64	111	119	109	109	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2121.4	2121.4	2121.4	2121.4	2121.4
2.5°	2131.2	2115.6	2123.4	2119.5	2111.7
5°	2123.4	2105.8	2115.6	2111.7	2111.7
7.5°	2105.8	2092.2	2100.0	2098.0	2100.0
10°	2084.4	2070.7	2082.4	2082.4	2080.5
12.5°	2055.1	2043.4	2057.1	2057.1	2059.0
15°	2022.0	2012.2	2025.9	2031.7	2033.7
17.5°	1981.0	1971.3	1988.8	1994.7	2000.5
20°	1934.2	1930.3	1947.9	1953.7	1961.5
22.5°	1881.6	1881.6	1899.1	1906.9	1918.6
25°	1829.0	1827.0	1848.4	1860.1	1867.9
27.5°	1766.6	1768.5	1795.8	1807.5	1817.3
30°	1700.3	1704.2	1735.4	1749.0	1762.7
32.5°	1630.1	1637.9	1673.0	1688.6	1702.2
35°	1557.9	1567.7	1606.7	1624.2	1639.8
37.5°	1485.8	1499.4	1540.4	1557.9	1575.5
40°	1409.7	1421.4	1468.2	1489.7	1511.1
42.5°	1331.7	1347.3	1394.1	1425.3	1450.7
45°	1251.8	1269.3	1320.0	1359.0	1388.3
47.5°	1171.9	1195.3	1244.0	1296.6	1322.0
50°	1091.9	1115.3	1169.9	1228.4	1253.7
52.5°	1010.0	1033.4	1095.8	1156.3	1183.6
55°	932.0	955.4	1021.7	1088.0	1115.3
57.5°	850.1	875.5	949.6	1017.8	1045.1
60°	770.2	795.5	875.5	947.6	976.9
62.5°	692.2	719.5	803.3	879.4	908.6
65°	612.3	643.4	731.2	811.1	842.3
67.5°	534.3	569.4	661.0	744.8	778.0
70°	456.3	497.2	594.7	680.5	713.6
72.5°	380.2	425.1	528.4	614.2	631.7
75°	306.1	358.8	466.0	507.0	503.1
77.5°	235.9	294.4	395.8	403.6	415.3
80°	171.6	235.9	296.4	312.0	304.2
82.5°	113.1	177.4	212.5	204.7	202.8
85°	64.3	111.1	118.9	109.2	109.2
87.5°	27.3	44.8	39.0	29.2	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)