

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: P260909

Luminaire Tested: **24CZ-LD5-70-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5525.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

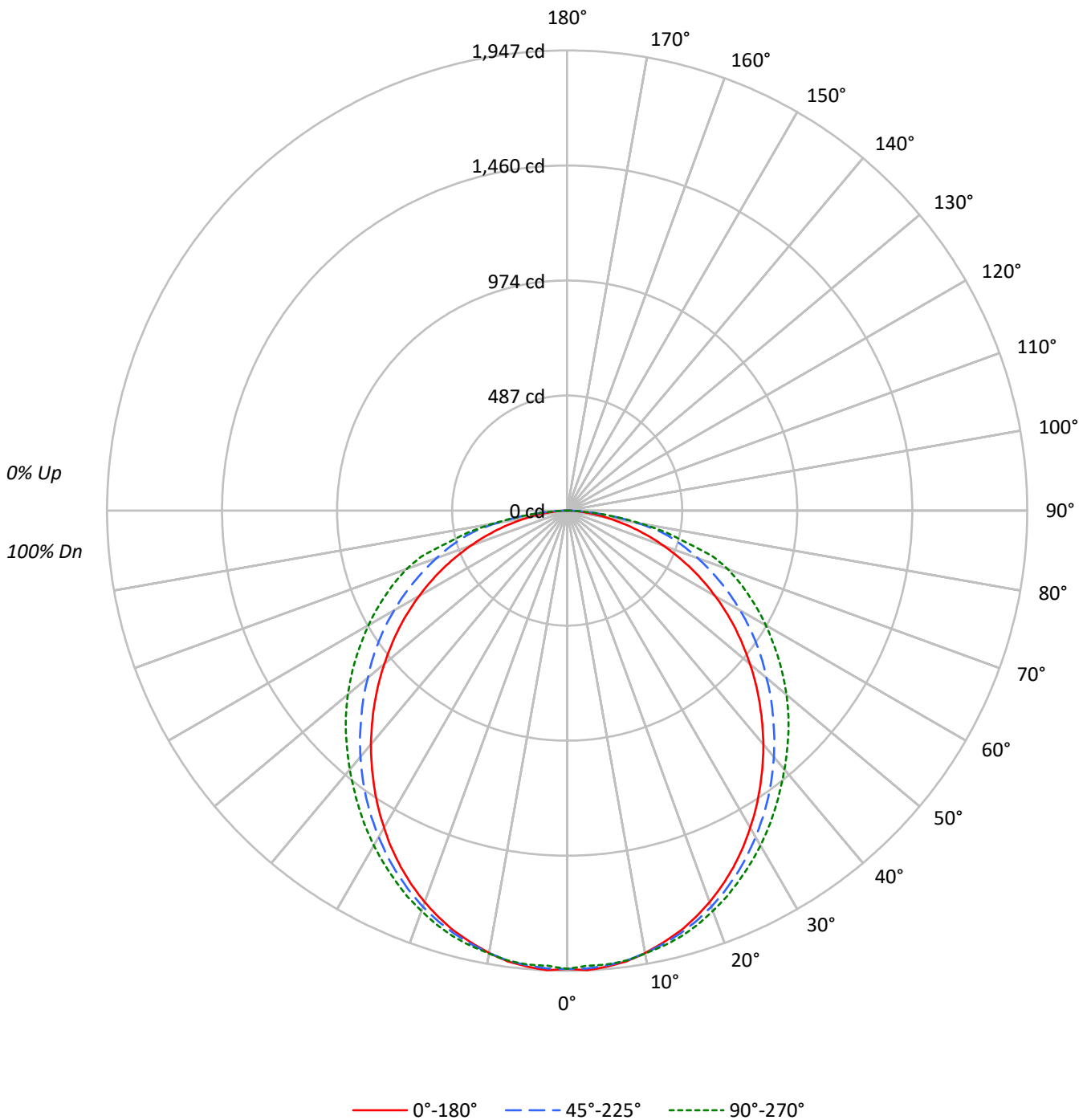
Input Watts (W): 53.568
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2609	2609	2609
5°	2616	2609	2603
10°	2598	2598	2600
15°	2567	2580	2598
20°	2524	2554	2581
25°	2471	2519	2561
30°	2407	2478	2542
35°	2340	2436	2523
40°	2269	2389	2512
45°	2192	2343	2520
50°	2115	2305	2534
55°	2037	2290	2560
60°	1945	2275	2611
65°	1843	2277	2698
70°	1704	2314	2843
75°	1524	2419	2704
80°	1275	2316	2477
85°	963	1782	1694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	3.3
10°-20°	521.5	9.4
20°-30°	779.6	14.1
30°-40°	924.9	16.7
40°-50°	951.9	17.2
50°-60°	873.3	15.8
60°-70°	706.1	12.8
70°-80°	458.2	8.3
80°-90°	126.4	2.3
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°	1484.3	26.9
0°-40°	2409.2	43.6
0°-60°	4234.4	76.6
0°-90°	5525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1939	1939	1939	1939	1939	
5°	1937	1924	1931	1930	1928	184
15°	1842	1835	1852	1860	1865	519
25°	1665	1667	1697	1712	1725	766
35°	1424	1436	1483	1515	1536	891
45°	1152	1171	1232	1290	1324	889
55°	868	895	976	1056	1092	776
65°	579	613	715	810	848	572
75°	293	348	465	520	520	312
85°	62	106	115	112	110	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1939.0	1939.0	1939.0	1939.0	1939.0
2.5°	1946.6	1931.4	1939.0	1937.1	1927.6
5°	1937.1	1923.9	1931.4	1929.5	1927.6
7.5°	1923.9	1910.6	1920.1	1918.2	1920.1
10°	1901.2	1889.8	1901.2	1903.0	1903.0
12.5°	1872.8	1863.3	1878.5	1882.2	1886.0
15°	1842.5	1834.9	1852.0	1859.5	1865.2
17.5°	1804.7	1799.0	1819.8	1829.3	1836.8
20°	1763.1	1761.2	1783.9	1793.3	1802.8
22.5°	1715.8	1715.8	1742.3	1753.6	1766.8
25°	1664.7	1666.6	1696.9	1712.0	1725.2
27.5°	1609.8	1611.7	1647.7	1666.6	1681.7
30°	1549.3	1556.9	1594.7	1619.3	1636.3
32.5°	1488.8	1498.2	1539.8	1568.2	1587.1
35°	1424.4	1435.8	1483.1	1515.2	1536.1
37.5°	1358.2	1371.5	1422.6	1458.5	1483.1
40°	1292.0	1307.2	1360.1	1401.7	1430.1
42.5°	1222.0	1239.1	1297.7	1346.9	1377.2
45°	1152.0	1171.0	1231.5	1290.1	1324.2
47.5°	1082.0	1104.8	1169.1	1233.4	1269.3
50°	1010.2	1032.9	1101.0	1174.7	1210.7
52.5°	938.3	964.8	1040.4	1116.1	1152.0
55°	868.3	894.8	976.1	1055.6	1091.5
57.5°	796.4	822.9	911.8	995.0	1031.0
60°	722.6	752.9	845.6	930.7	970.4
62.5°	650.7	682.9	781.3	872.1	909.9
65°	578.9	612.9	715.1	809.6	847.5
67.5°	505.1	544.8	650.7	747.2	786.9
70°	433.2	476.7	588.3	684.8	722.6
72.5°	363.2	410.5	525.9	624.3	647.0
75°	293.2	348.1	465.4	520.2	520.2
77.5°	227.0	287.5	397.3	418.1	429.4
80°	164.6	230.8	298.9	323.5	319.7
82.5°	109.7	175.9	213.8	213.8	208.1
85°	62.4	105.9	115.4	111.6	109.7
87.5°	26.5	39.7	35.9	28.4	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)