

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: P260905

Luminaire Tested: **24CZ-LD5-65-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260905
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-LD5-65-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6042.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

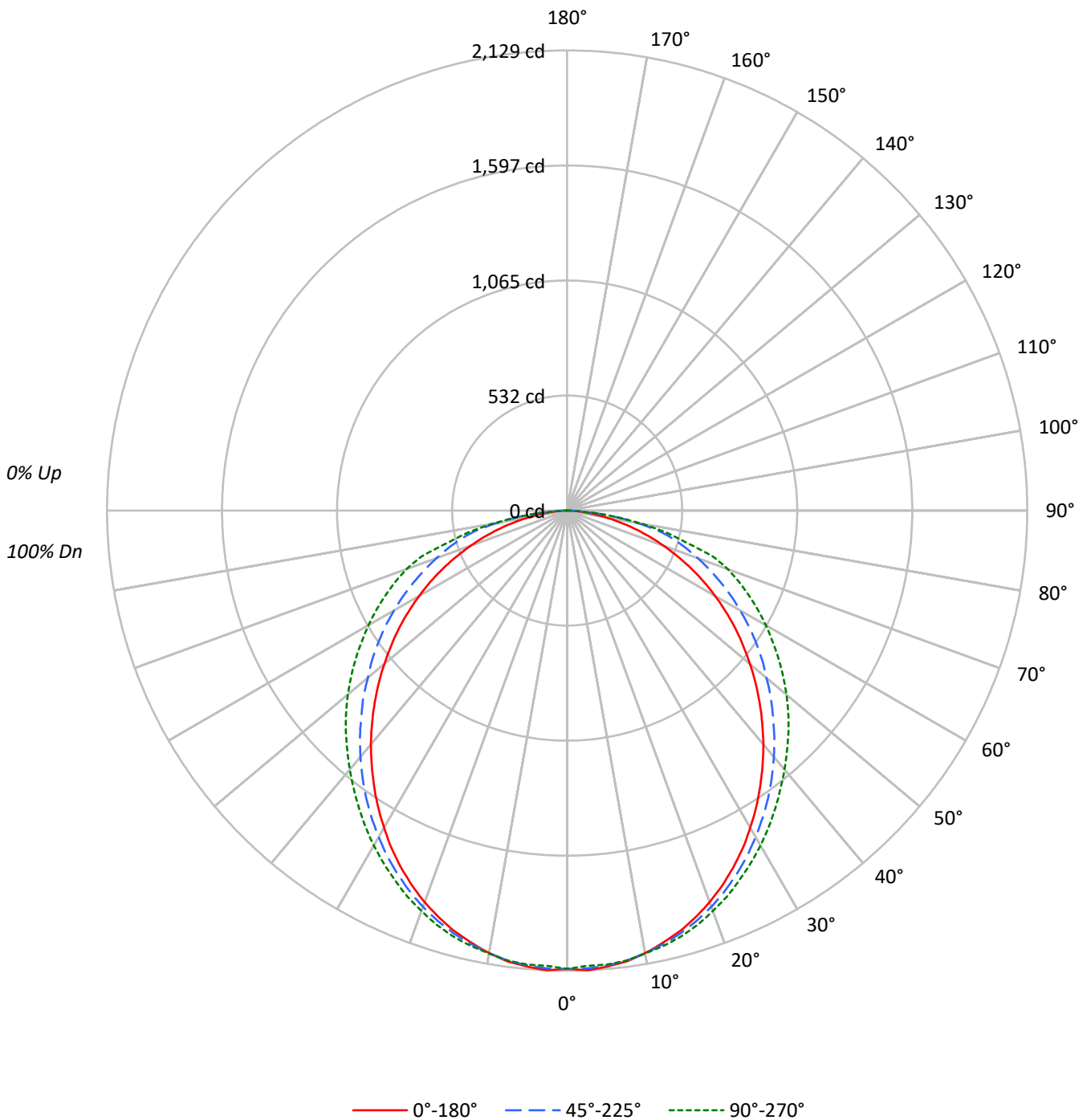
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2853	2853	2853
5°	2861	2853	2847
10°	2841	2841	2843
15°	2807	2821	2841
20°	2761	2793	2823
25°	2703	2755	2801
30°	2632	2709	2780
35°	2559	2664	2759
40°	2482	2612	2747
45°	2397	2563	2755
50°	2312	2520	2771
55°	2227	2504	2800
60°	2126	2488	2856
65°	2015	2490	2951
70°	1864	2531	3109
75°	1667	2646	2957
80°	1395	2533	2709
85°	1054	1948	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	3.3
10°-20°	570.3	9.4
20°-30°	852.5	14.1
30°-40°	1011.4	16.7
40°-50°	1041.0	17.2
50°-60°	955.0	15.8
60°-70°	772.1	12.8
70°-80°	501.1	8.3
80°-90°	138.2	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°	1623.2	26.9
0°-40°	2634.6	43.6
0°-60°	4630.5	76.6
0°-90°	6042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2120	2120	2120	2120	2120	
5°	2118	2104	2112	2110	2108	201
15°	2015	2007	2025	2034	2040	568
25°	1820	1822	1856	1872	1887	838
35°	1558	1570	1622	1657	1680	974
45°	1260	1280	1347	1411	1448	972
55°	950	978	1068	1154	1194	848
65°	633	670	782	885	927	626
75°	321	381	509	569	569	341
85°	68	116	126	122	120	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2120.4	2120.4	2120.4	2120.4	2120.4
2.5°	2128.7	2112.2	2120.4	2118.4	2108.0
5°	2118.4	2103.9	2112.2	2110.1	2108.0
7.5°	2103.9	2089.4	2099.7	2097.7	2099.7
10°	2079.1	2066.6	2079.1	2081.1	2081.1
12.5°	2048.0	2037.7	2054.2	2058.4	2062.5
15°	2014.9	2006.6	2025.3	2033.5	2039.7
17.5°	1973.5	1967.3	1990.1	2000.4	2008.7
20°	1928.0	1926.0	1950.8	1961.1	1971.5
22.5°	1876.3	1876.3	1905.3	1917.7	1932.2
25°	1820.5	1822.5	1855.6	1872.2	1886.7
27.5°	1760.5	1762.5	1801.8	1822.5	1839.1
30°	1694.3	1702.5	1743.9	1770.8	1789.4
32.5°	1628.1	1638.4	1683.9	1715.0	1735.6
35°	1557.7	1570.2	1621.9	1657.0	1679.8
37.5°	1485.3	1499.8	1555.7	1595.0	1621.9
40°	1412.9	1429.5	1487.4	1532.9	1563.9
42.5°	1336.4	1355.0	1419.1	1472.9	1506.0
45°	1259.8	1280.5	1346.7	1410.9	1448.1
47.5°	1183.3	1208.1	1278.5	1348.8	1388.1
50°	1104.7	1129.5	1204.0	1284.7	1324.0
52.5°	1026.1	1055.0	1137.8	1220.5	1259.8
55°	949.5	978.5	1067.5	1154.3	1193.6
57.5°	870.9	899.9	997.1	1088.1	1127.4
60°	790.2	823.3	924.7	1017.8	1061.2
62.5°	711.6	746.8	854.4	953.7	995.0
65°	633.0	670.3	782.0	885.4	926.8
67.5°	552.3	595.8	711.6	817.1	860.6
70°	473.7	521.3	643.4	748.9	790.2
72.5°	397.2	448.9	575.1	682.7	707.5
75°	320.7	380.6	508.9	568.9	568.9
77.5°	248.2	314.4	434.4	457.2	469.6
80°	180.0	252.4	326.9	353.7	349.6
82.5°	120.0	192.4	233.8	233.8	227.6
85°	68.3	115.8	126.2	122.1	120.0
87.5°	29.0	43.4	39.3	31.0	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)