

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: P261315

Luminaire Tested: **24CZ-LD5-60-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261315
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-LD5-60-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5574.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

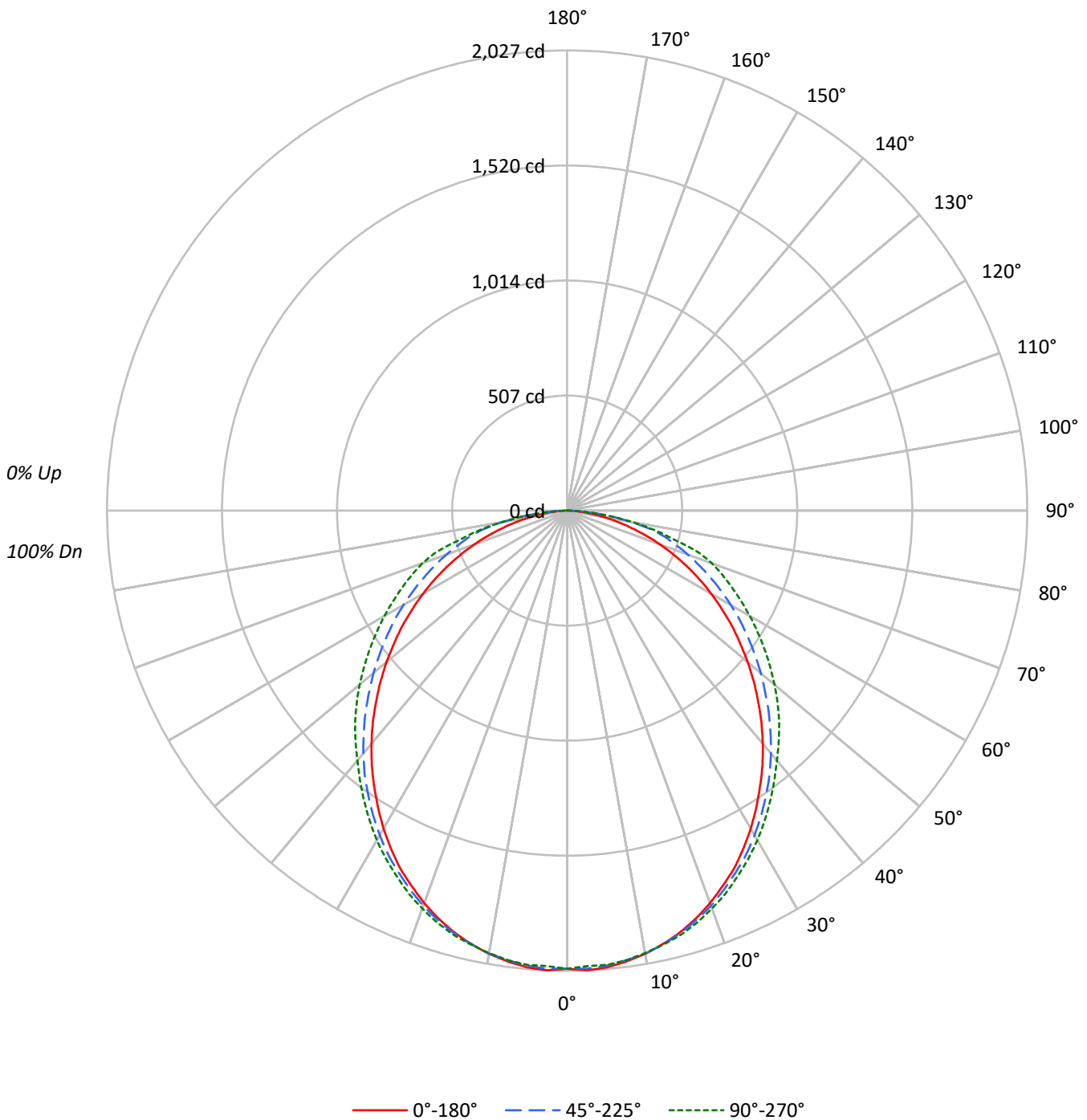
Input Watts (W): 45.105
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2715	2715	2715
5°	2728	2718	2713
10°	2709	2706	2704
15°	2679	2684	2695
20°	2634	2653	2672
25°	2583	2610	2638
30°	2513	2565	2605
35°	2434	2510	2562
40°	2355	2453	2525
45°	2266	2389	2513
50°	2174	2329	2496
55°	2080	2280	2489
60°	1971	2241	2500
65°	1854	2214	2551
70°	1707	2225	2670
75°	1514	2305	2488
80°	1265	2184	2242
85°	945	1746	1604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	3.4
10°-20°	542.6	9.7
20°-30°	808.6	14.5
30°-40°	951.9	17.1
40°-50°	967.3	17.4
50°-60°	869.7	15.6
60°-70°	687.0	12.3
70°-80°	435.9	7.8
80°-90°	120.3	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°	1542.0	27.7
0°-40°	2493.8	44.7
0°-60°	4330.8	77.7
0°-90°	5574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2018	2018	2018	2018	2018	
5°	2020	2003	2012	2009	2009	192
15°	1923	1914	1927	1933	1934	542
25°	1740	1738	1758	1769	1777	800
35°	1482	1491	1528	1545	1560	927
45°	1191	1207	1256	1293	1320	919
55°	886	909	972	1035	1061	792
65°	582	612	696	772	801	577
75°	291	341	443	482	478	310
85°	61	106	113	104	104	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2017.9	2017.9	2017.9	2017.9	2017.9
2.5°	2027.2	2012.3	2019.7	2016.0	2008.6
5°	2019.7	2003.1	2012.3	2008.6	2008.6
7.5°	2003.1	1990.1	1997.5	1995.6	1997.5
10°	1982.7	1969.7	1980.8	1980.8	1978.9
12.5°	1954.8	1943.7	1956.7	1956.7	1958.5
15°	1923.3	1914.0	1927.0	1932.6	1934.4
17.5°	1884.4	1875.1	1891.8	1897.3	1902.9
20°	1839.8	1836.1	1852.8	1858.4	1865.8
22.5°	1789.8	1789.8	1806.5	1813.9	1825.0
25°	1739.7	1737.8	1758.2	1769.4	1776.8
27.5°	1680.3	1682.2	1708.2	1719.3	1728.6
30°	1617.3	1621.0	1650.7	1663.6	1676.6
32.5°	1550.5	1557.9	1591.3	1606.2	1619.1
35°	1481.9	1491.2	1528.3	1544.9	1559.8
37.5°	1413.3	1426.2	1465.2	1481.9	1498.6
40°	1340.9	1352.1	1396.6	1417.0	1437.4
42.5°	1266.7	1281.6	1326.1	1355.8	1379.9
45°	1190.7	1207.4	1255.6	1292.7	1320.5
47.5°	1114.7	1136.9	1183.3	1233.4	1257.5
50°	1038.6	1060.9	1112.8	1168.4	1192.6
52.5°	960.7	983.0	1042.3	1099.8	1125.8
55°	886.5	908.8	971.9	1034.9	1060.9
57.5°	808.6	832.8	903.2	968.1	994.1
60°	732.6	756.7	832.8	901.4	929.2
62.5°	658.4	684.4	764.1	836.5	864.3
65°	582.4	612.0	695.5	771.5	801.2
67.5°	508.2	541.6	628.7	708.5	740.0
70°	434.0	472.9	565.7	647.3	678.8
72.5°	361.7	404.3	502.6	584.2	600.9
75°	291.2	341.3	443.3	482.2	478.5
77.5°	224.4	280.1	376.5	383.9	395.0
80°	163.2	224.4	281.9	296.7	289.3
82.5°	107.6	168.8	202.2	194.7	192.9
85°	61.2	105.7	113.1	103.9	103.9
87.5°	26.0	42.7	37.1	27.8	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)