

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: P#

Luminaire Tested: **24CZ-LD5-60SE-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-60SE-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5961.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

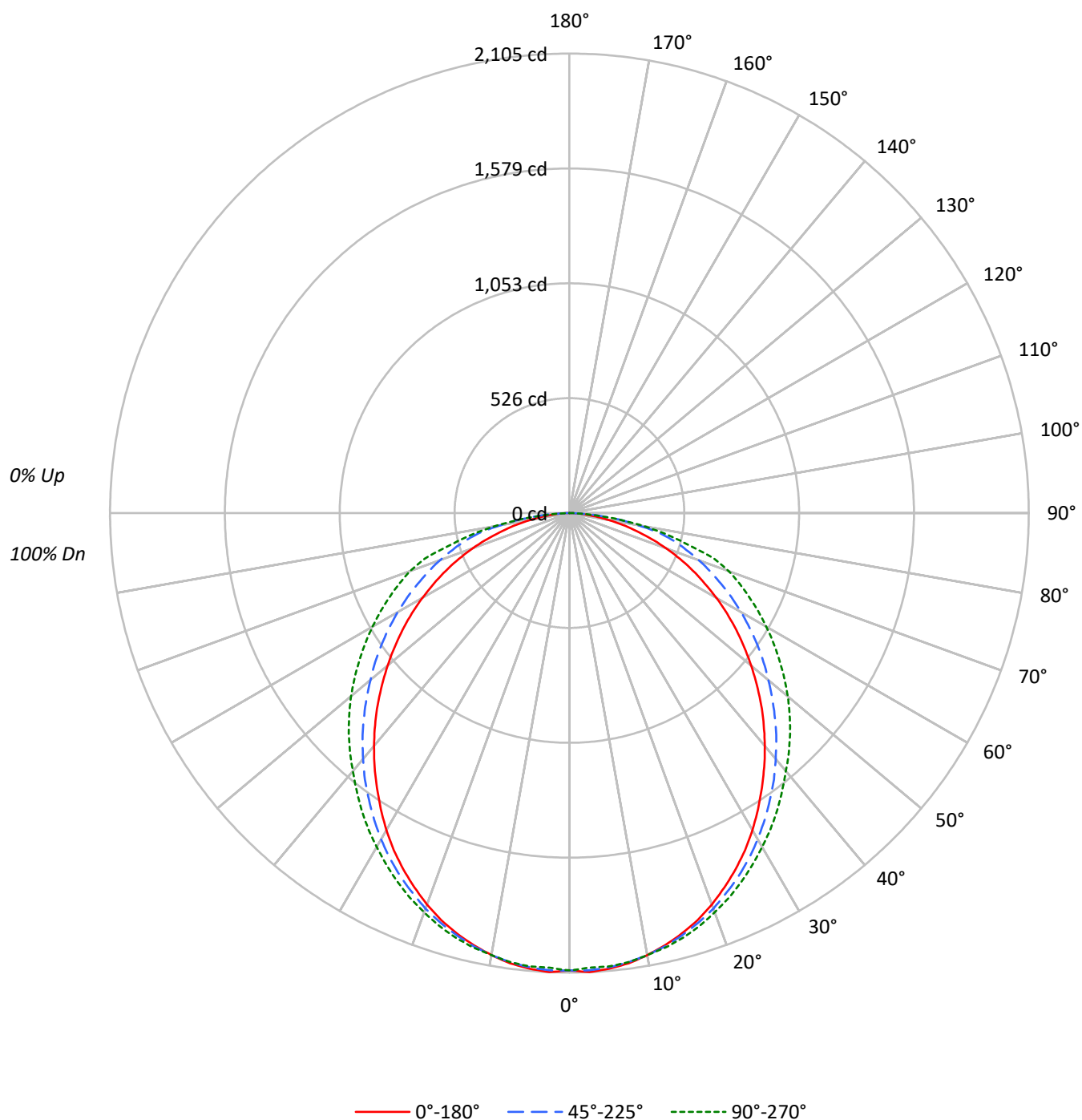
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60SE-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60SE-UNV-L835-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	93	90		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	76	72		78	74	71
3	89	79	70	63	87	77	69	63		74	67	62		71	65	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	51	42	35	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	55	42	34	28		41	33	28		40	33	28		39	32	28
10	52	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2819	2819	2819
5°	2823	2808	2803
10°	2797	2783	2785
15°	2758	2749	2768
20°	2708	2709	2738
25°	2642	2659	2704
30°	2568	2601	2667
35°	2481	2537	2636
40°	2397	2472	2601
45°	2308	2407	2591
50°	2209	2343	2580
55°	2113	2291	2571
60°	2008	2239	2581
65°	1887	2191	2612
70°	1732	2166	2686
75°	1514	2156	2470
80°	1238	1897	2093
85°	852	1228	1196



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60SE-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	3.3
10°-20°	563.8	9.5
20°-30°	842.8	14.1
30°-40°	999.4	16.8
40°-50°	1027.8	17.2
50°-60°	940.1	15.8
60°-70°	758.2	12.7
70°-80°	492.3	8.3
80°-90°	138.5	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°	1604.7	26.9
0°-40°	2604.1	43.7
0°-60°	4572.0	76.7
0°-90°	5961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2095	2095	2095	2095	2095	
5°	2095	2081	2089	2085	2085	199
15°	1993	1983	2002	2010	2014	562
25°	1801	1801	1835	1849	1864	829
35°	1537	1551	1602	1634	1661	962
45°	1243	1265	1332	1393	1430	958
55°	933	963	1050	1134	1174	834
65°	625	661	766	866	908	618
75°	318	377	497	558	564	339
85°	71	118	128	126	122	86
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60SE-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2094.8	2094.8	2094.8	2094.8	2094.8
2.5°	2104.9	2088.7	2096.8	2092.7	2084.6
5°	2094.8	2080.6	2088.7	2084.6	2084.6
7.5°	2080.6	2066.4	2074.5	2074.5	2074.5
10°	2056.2	2044.1	2056.2	2056.2	2056.2
12.5°	2027.8	2017.7	2031.9	2033.9	2038.0
15°	1993.4	1983.2	2001.5	2009.6	2013.6
17.5°	1954.8	1946.7	1967.0	1977.1	1983.2
20°	1908.2	1902.1	1928.5	1938.6	1946.7
22.5°	1855.5	1855.5	1881.8	1894.0	1908.2
25°	1800.7	1800.7	1835.2	1849.4	1863.6
27.5°	1741.9	1743.9	1782.5	1802.7	1816.9
30°	1677.0	1685.1	1725.7	1750.0	1766.2
32.5°	1608.1	1618.2	1664.9	1695.3	1715.5
35°	1537.1	1551.3	1602.0	1634.4	1660.8
37.5°	1466.1	1484.4	1539.1	1575.6	1602.0
40°	1393.1	1413.4	1470.2	1512.8	1543.2
42.5°	1318.1	1340.4	1403.3	1451.9	1488.4
45°	1243.1	1265.4	1332.3	1393.1	1429.6
47.5°	1164.0	1190.3	1261.3	1332.3	1368.8
50°	1086.9	1115.3	1190.3	1267.4	1305.9
52.5°	1009.9	1042.3	1121.4	1202.5	1241.0
55°	932.8	963.2	1050.4	1133.6	1174.1
57.5°	855.7	888.2	979.4	1066.6	1109.2
60°	778.7	813.2	908.5	999.7	1042.3
62.5°	699.6	736.1	837.5	932.8	975.4
65°	624.6	661.1	766.5	865.9	908.5
67.5°	547.5	588.1	697.6	799.0	843.6
70°	470.5	515.1	630.7	732.0	776.7
72.5°	393.4	444.1	561.7	663.1	695.5
75°	318.4	377.2	496.8	557.7	563.7
77.5°	249.4	310.3	423.8	448.2	460.3
80°	182.5	249.4	318.4	348.8	346.8
82.5°	121.7	190.6	229.1	233.2	229.1
85°	71.0	117.6	127.8	125.7	121.7
87.5°	30.4	46.6	40.6	34.5	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)