

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-LD5-60-S-UNV-L840-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 (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-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6345.4 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

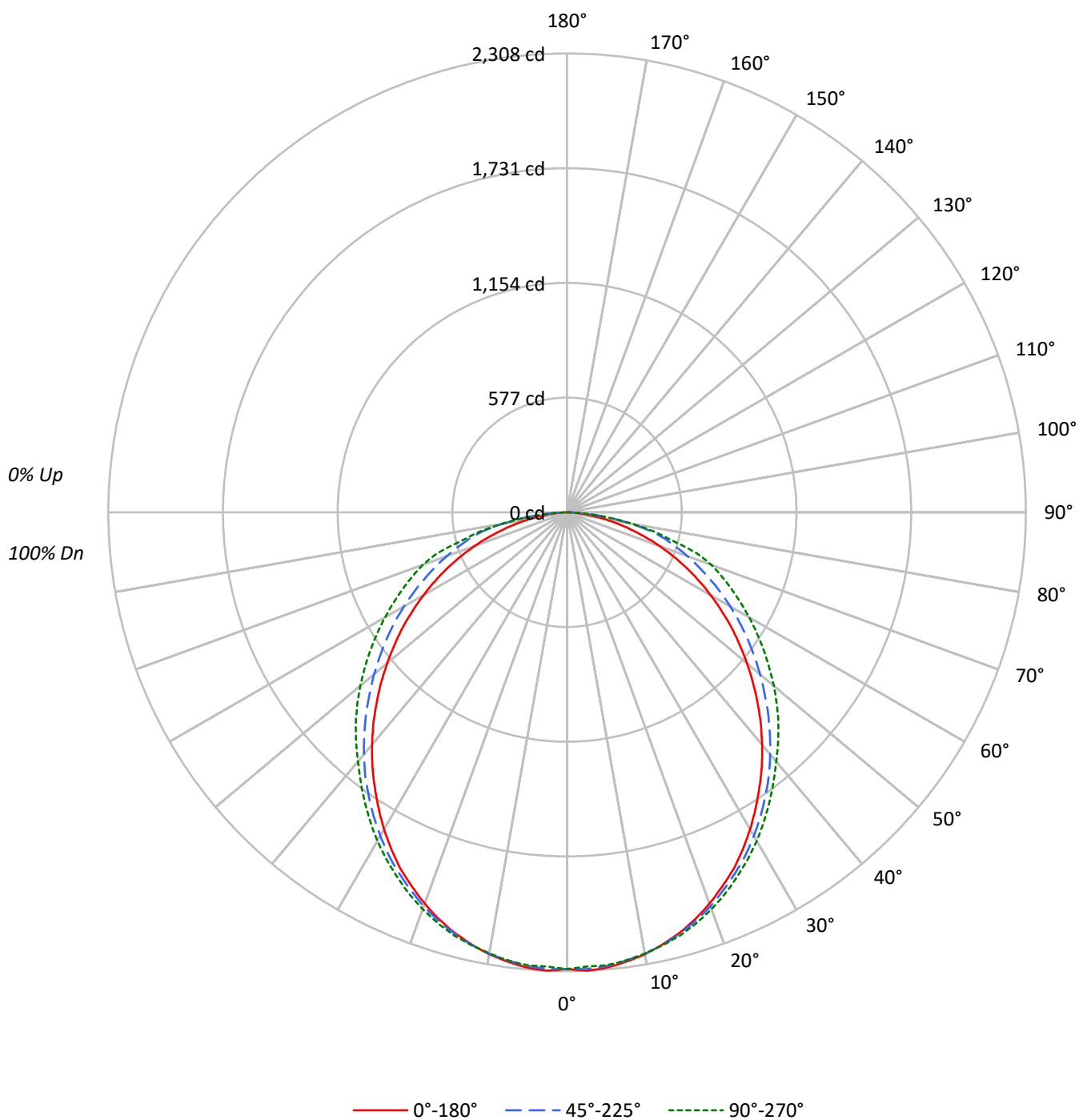
Input Watts (W): 52.17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60-S-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60-S-UNV-L840-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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3091	3091	3091
5°	3099	3080	3075
10°	3070	3052	3051
15°	3030	3013	3027
20°	2972	2963	2987
25°	2906	2900	2934
30°	2820	2833	2882
35°	2723	2755	2818
40°	2626	2673	2758
45°	2516	2583	2724
50°	2403	2494	2682
55°	2286	2412	2644
60°	2151	2336	2620
65°	2003	2263	2623
70°	1819	2211	2673
75°	1576	2190	2386
80°	1261	1912	1988
85°	837	1238	1161



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60-S-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.2	3.4
10°-20°	617.7	9.7
20°-30°	920.5	14.5
30°-40°	1083.6	17.1
40°-50°	1101.2	17.4
50°-60°	990.0	15.6
60°-70°	782.1	12.3
70°-80°	496.2	7.8
80°-90°	136.9	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°	1755.4	27.7
0°-40°	2839.0	44.7
0°-60°	4930.1	77.7
0°-90°	6345.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6345.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2297	2297	2297	2297	2297	
5°	2299	2280	2291	2287	2287	218
15°	2190	2179	2194	2200	2202	617
25°	1980	1978	2002	2014	2023	911
35°	1687	1698	1740	1759	1776	1055
45°	1356	1374	1429	1472	1503	1046
55°	1009	1035	1106	1178	1208	901
65°	663	697	792	878	912	657
75°	332	388	505	549	545	353
85°	70	120	129	118	118	86
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60-S-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2297.2	2297.2	2297.2	2297.2	2297.2
2.5°	2307.7	2290.8	2299.3	2295.0	2286.6
5°	2299.3	2280.3	2290.8	2286.6	2286.6
7.5°	2280.3	2265.5	2273.9	2271.8	2273.9
10°	2257.0	2242.3	2254.9	2254.9	2252.8
12.5°	2225.4	2212.7	2227.5	2227.5	2229.6
15°	2189.5	2178.9	2193.7	2200.0	2202.1
17.5°	2145.1	2134.6	2153.6	2159.9	2166.2
20°	2094.5	2090.2	2109.2	2115.6	2124.0
22.5°	2037.5	2037.5	2056.5	2064.9	2077.6
25°	1980.4	1978.3	2001.6	2014.2	2022.7
27.5°	1912.9	1915.0	1944.6	1957.2	1967.8
30°	1841.1	1845.3	1879.1	1893.9	1908.7
32.5°	1765.1	1773.5	1811.5	1828.4	1843.2
35°	1687.0	1697.5	1739.8	1758.8	1775.6
37.5°	1608.9	1623.6	1668.0	1687.0	1706.0
40°	1526.5	1539.2	1589.8	1613.1	1636.3
42.5°	1442.1	1458.9	1509.6	1543.4	1570.8
45°	1355.5	1374.5	1429.4	1471.6	1503.3
47.5°	1268.9	1294.3	1347.0	1404.0	1431.5
50°	1182.4	1207.7	1266.8	1330.2	1357.6
52.5°	1093.7	1119.0	1186.6	1252.0	1281.6
55°	1009.2	1034.6	1106.3	1178.1	1207.7
57.5°	920.5	948.0	1028.2	1102.1	1131.7
60°	834.0	861.4	948.0	1026.1	1057.8
62.5°	749.5	779.1	869.9	952.2	983.9
65°	663.0	696.7	791.8	878.3	912.1
67.5°	578.5	616.5	715.7	806.5	842.4
70°	494.1	538.4	644.0	736.9	772.8
72.5°	411.7	460.3	572.2	665.1	684.1
75°	331.5	388.5	504.6	549.0	544.7
77.5°	255.5	318.8	428.6	437.0	449.7
80°	185.8	255.5	320.9	337.8	329.4
82.5°	122.5	192.1	230.1	221.7	219.6
85°	69.7	120.3	128.8	118.2	118.2
87.5°	29.6	48.6	42.2	31.7	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)