

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-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 (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-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6080.2 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

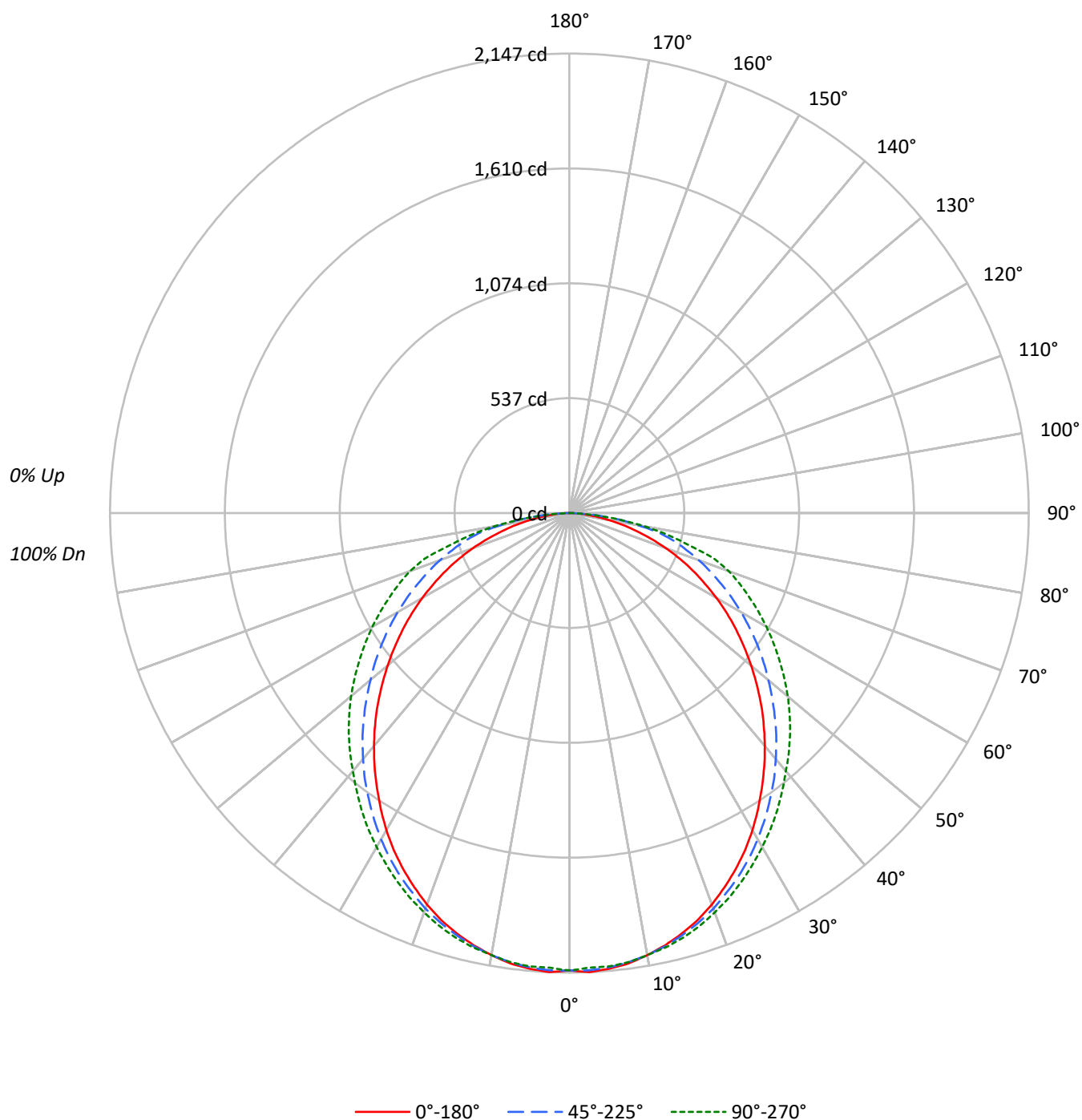
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	96	88	81	76	84	79	74	81	76	72	78	74	71	68		68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	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	33		33
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	55	42	34	28	41	33	28	40	33	28	39	32	28	26		26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2875	2875	2875
5°	2879	2864	2859
10°	2853	2839	2840
15°	2813	2804	2823
20°	2762	2763	2792
25°	2695	2712	2758
30°	2620	2653	2720
35°	2531	2588	2688
40°	2445	2522	2653
45°	2354	2456	2643
50°	2254	2390	2631
55°	2155	2336	2622
60°	2049	2284	2633
65°	1925	2235	2664
70°	1767	2209	2740
75°	1544	2199	2519
80°	1264	1934	2135
85°	869	1252	1219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	3.3
10°-20°	575.1	9.5
20°-30°	859.7	14.1
30°-40°	1019.4	16.8
40°-50°	1048.3	17.2
50°-60°	958.9	15.8
60°-70°	773.4	12.7
70°-80°	502.1	8.3
80°-90°	141.3	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°	1636.8	26.9
0°-40°	2656.2	43.7
0°-60°	4663.4	76.7
0°-90°	6080.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6080.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2137	2137	2137	2137	2137	
5°	2137	2122	2130	2126	2126	203
15°	2033	2023	2042	2050	2054	573
25°	1837	1837	1872	1886	1901	846
35°	1568	1582	1634	1667	1694	981
45°	1268	1291	1359	1421	1458	977
55°	952	982	1071	1156	1198	851
65°	637	674	782	883	927	630
75°	325	385	507	569	575	346
85°	72	120	130	128	124	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2136.6	2136.6	2136.6	2136.6	2136.6
2.5°	2147.0	2130.4	2138.7	2134.6	2126.3
5°	2136.6	2122.2	2130.4	2126.3	2126.3
7.5°	2122.2	2107.7	2116.0	2116.0	2116.0
10°	2097.3	2084.9	2097.3	2097.3	2097.3
12.5°	2068.4	2058.0	2072.5	2074.6	2078.7
15°	2033.2	2022.9	2041.5	2049.8	2053.9
17.5°	1993.9	1985.7	2006.3	2016.7	2022.9
20°	1946.4	1940.2	1967.0	1977.4	1985.7
22.5°	1892.6	1892.6	1919.5	1931.9	1946.4
25°	1836.7	1836.7	1871.9	1886.4	1900.9
27.5°	1776.7	1778.8	1818.1	1838.8	1853.3
30°	1710.6	1718.8	1760.2	1785.0	1801.6
32.5°	1640.2	1650.6	1698.1	1729.2	1749.9
35°	1567.8	1582.3	1634.0	1667.1	1694.0
37.5°	1495.4	1514.1	1569.9	1607.1	1634.0
40°	1421.0	1441.7	1499.6	1543.0	1574.0
42.5°	1344.5	1367.2	1431.3	1481.0	1518.2
45°	1267.9	1290.7	1358.9	1421.0	1458.2
47.5°	1187.3	1214.1	1286.5	1358.9	1396.2
50°	1108.7	1137.6	1214.1	1292.7	1332.0
52.5°	1030.1	1063.2	1143.8	1226.6	1265.9
55°	951.5	982.5	1071.4	1156.2	1197.6
57.5°	872.9	906.0	999.0	1088.0	1131.4
60°	794.3	829.4	926.6	1019.7	1063.2
62.5°	713.6	750.8	854.2	951.5	994.9
65°	637.1	674.3	781.9	883.2	926.6
67.5°	558.5	599.8	711.5	814.9	860.5
70°	479.9	525.4	643.3	746.7	792.2
72.5°	401.3	453.0	572.9	676.4	709.5
75°	324.7	384.7	506.8	568.8	575.0
77.5°	254.4	316.5	432.3	457.1	469.5
80°	186.2	254.4	324.7	355.8	353.7
82.5°	124.1	194.4	233.7	237.9	233.7
85°	72.4	120.0	130.3	128.2	124.1
87.5°	31.0	47.6	41.4	35.2	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)