

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-L850-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-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6577.1 lumens
Efficiency: N/A
Efficacy: 109.6 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

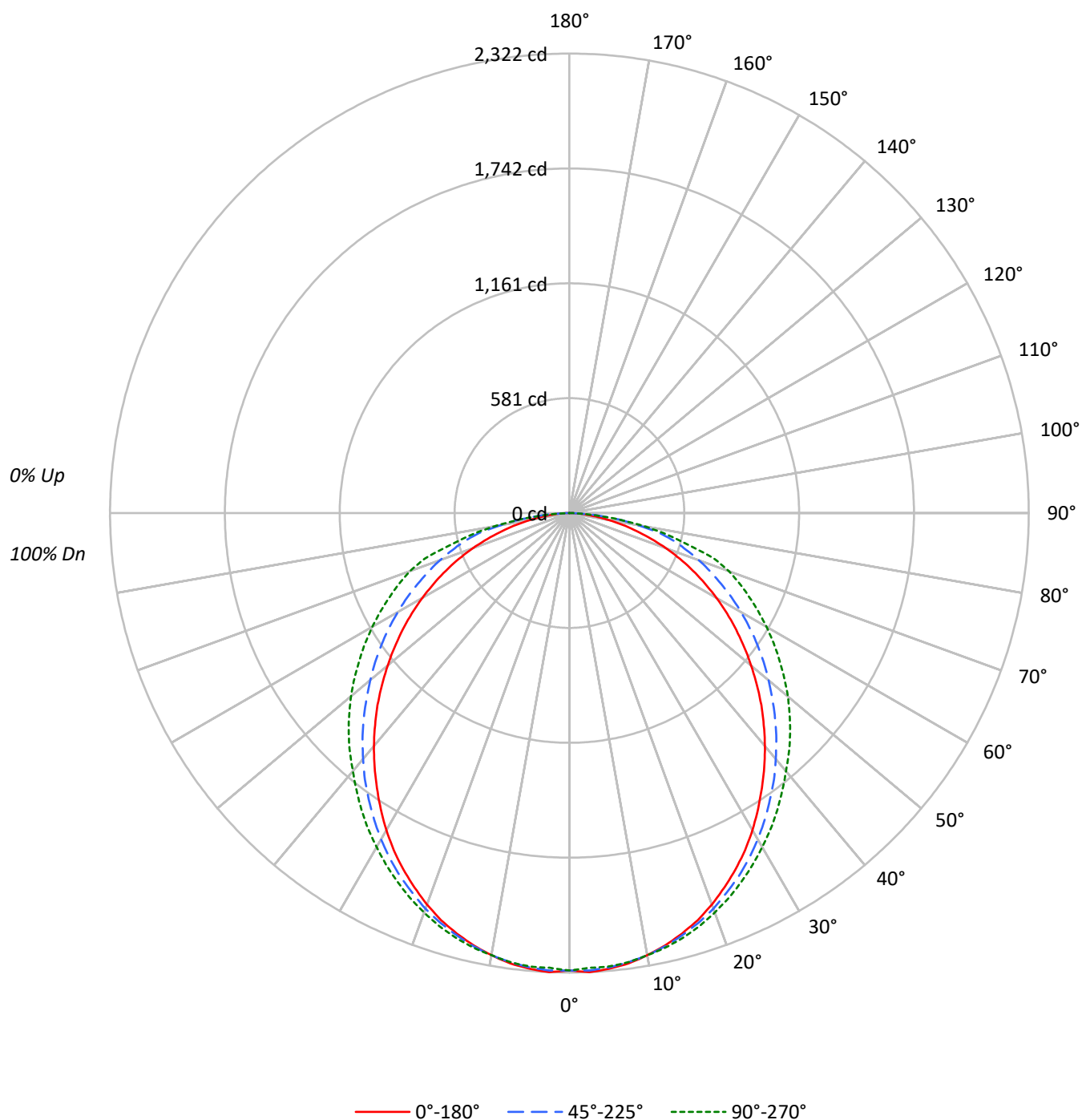
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3110	3110	3110
5°	3115	3098	3093
10°	3086	3071	3073
15°	3043	3033	3054
20°	2987	2989	3020
25°	2916	2933	2983
30°	2834	2870	2943
35°	2738	2799	2908
40°	2644	2728	2870
45°	2546	2656	2859
50°	2438	2586	2846
55°	2331	2527	2836
60°	2216	2471	2848
65°	2082	2418	2882
70°	1911	2389	2964
75°	1670	2379	2725
80°	1367	2093	2310
85°	940	1355	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	3.3
10°-20°	622.1	9.5
20°-30°	929.9	14.1
30°-40°	1102.7	16.8
40°-50°	1134.0	17.2
50°-60°	1037.3	15.8
60°-70°	836.6	12.7
70°-80°	543.1	8.3
80°-90°	152.8	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°	1770.6	26.9
0°-40°	2873.2	43.7
0°-60°	5044.5	76.7
0°-90°	6577.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6577.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2311	2311	2311	2311	2311	
5°	2311	2296	2304	2300	2300	219
15°	2199	2188	2208	2217	2222	620
25°	1987	1987	2025	2040	2056	915
35°	1696	1712	1768	1803	1832	1061
45°	1372	1396	1470	1537	1577	1057
55°	1029	1063	1159	1251	1296	920
65°	689	729	846	955	1002	681
75°	351	416	548	615	622	375
85°	78	130	141	139	134	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2311.2	2311.2	2311.2	2311.2	2311.2
2.5°	2322.4	2304.5	2313.5	2309.0	2300.0
5°	2311.2	2295.6	2304.5	2300.0	2300.0
7.5°	2295.6	2279.9	2288.9	2288.9	2288.9
10°	2268.7	2255.3	2268.7	2268.7	2268.7
12.5°	2237.4	2226.2	2241.9	2244.1	2248.6
15°	2199.4	2188.2	2208.3	2217.3	2221.7
17.5°	2156.9	2147.9	2170.3	2181.5	2188.2
20°	2105.4	2098.7	2127.8	2139.0	2147.9
22.5°	2047.2	2047.2	2076.3	2089.7	2105.4
25°	1986.8	1986.8	2024.8	2040.5	2056.2
27.5°	1921.9	1924.2	1966.7	1989.0	2004.7
30°	1850.3	1859.3	1904.0	1930.9	1948.8
32.5°	1774.3	1785.4	1836.9	1870.5	1892.8
35°	1695.9	1711.6	1767.5	1803.3	1832.4
37.5°	1617.6	1637.8	1698.2	1738.5	1767.5
40°	1537.1	1559.5	1622.1	1669.1	1702.7
42.5°	1454.3	1478.9	1548.3	1602.0	1642.3
45°	1371.5	1396.1	1470.0	1537.1	1577.4
47.5°	1284.3	1313.4	1391.7	1470.0	1510.2
50°	1199.2	1230.6	1313.4	1398.4	1440.9
52.5°	1114.2	1150.0	1237.3	1326.8	1369.3
55°	1029.2	1062.8	1159.0	1250.7	1295.5
57.5°	944.2	980.0	1080.7	1176.9	1223.9
60°	859.2	897.2	1002.4	1103.0	1150.0
62.5°	771.9	812.2	924.0	1029.2	1076.2
65°	689.1	729.4	845.7	955.4	1002.4
67.5°	604.1	648.8	769.7	881.5	930.8
70°	519.1	568.3	695.8	807.7	856.9
72.5°	434.1	490.0	619.8	731.6	767.4
75°	351.3	416.2	548.2	615.3	622.0
77.5°	275.2	342.3	467.6	494.5	507.9
80°	201.4	275.2	351.3	384.8	382.6
82.5°	134.2	210.3	252.8	257.3	252.8
85°	78.3	129.8	141.0	138.7	134.2
87.5°	33.6	51.5	44.7	38.0	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)