

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: P230027

Luminaire Tested: **24CZ-LD5-65SE-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65SE-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6275.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

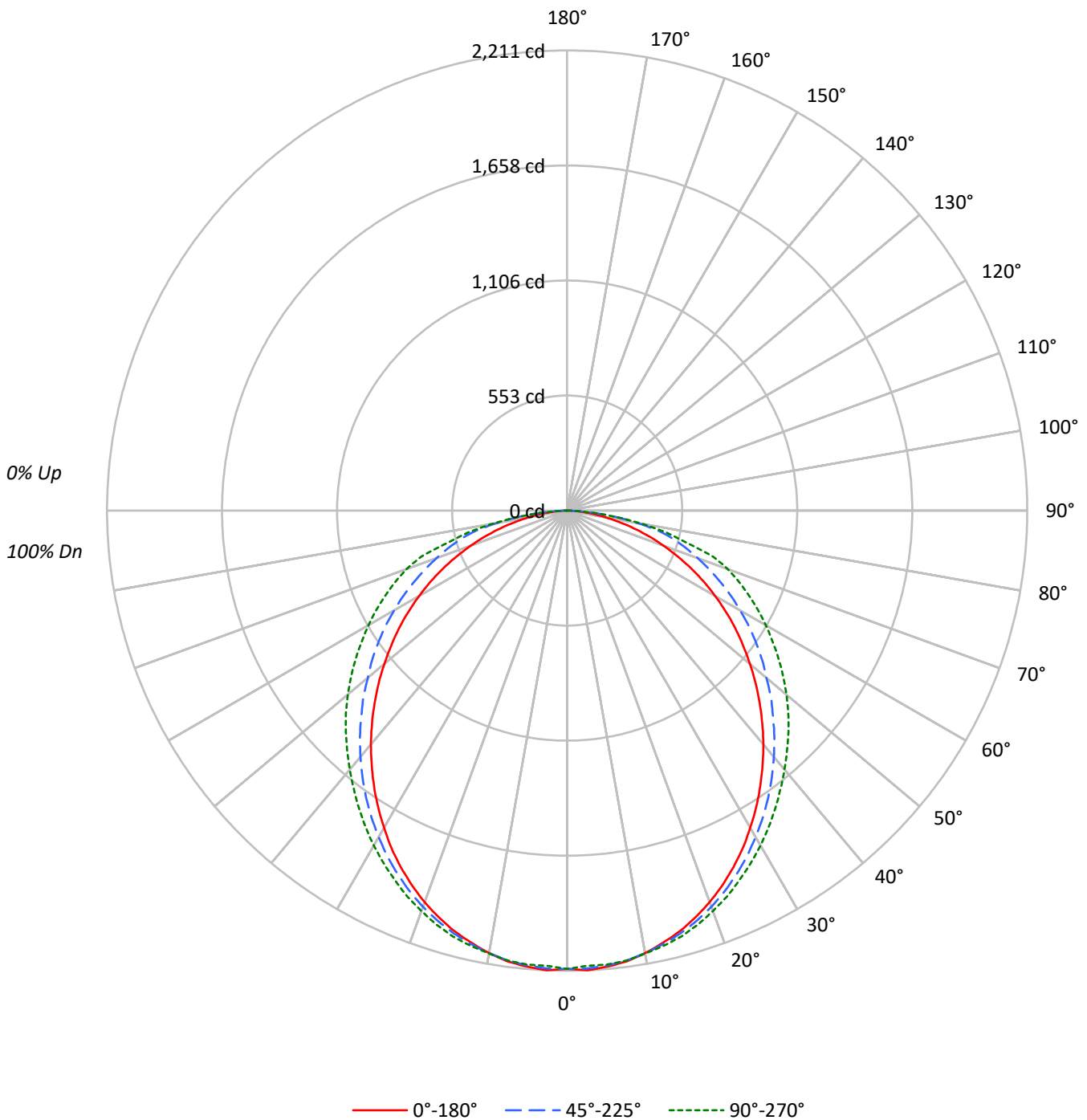
Input Watts (W): 60
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2963	2963	2963
5°	2972	2963	2957
10°	2950	2950	2953
15°	2915	2930	2951
20°	2867	2901	2932
25°	2807	2861	2909
30°	2734	2814	2887
35°	2657	2767	2866
40°	2577	2713	2853
45°	2490	2661	2862
50°	2402	2617	2878
55°	2313	2601	2908
60°	2208	2584	2966
65°	2093	2585	3064
70°	1936	2629	3229
75°	1731	2747	3071
80°	1448	2631	2813
85°	1095	2024	1924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	3.3
10°-20°	592.3	9.4
20°-30°	885.4	14.1
30°-40°	1050.4	16.7
40°-50°	1081.1	17.2
50°-60°	991.8	15.8
60°-70°	801.9	12.8
70°-80°	520.4	8.3
80°-90°	143.5	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°	1685.8	26.9
0°-40°	2736.2	43.6
0°-60°	4809.1	76.6
0°-90°	6275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2200	2185	2194	2192	2189	209
15°	2093	2084	2103	2112	2118	589
25°	1891	1893	1927	1944	1959	870
35°	1618	1631	1684	1721	1745	1012
45°	1308	1330	1399	1465	1504	1010
55°	986	1016	1109	1199	1240	881
65°	657	696	812	920	962	650
75°	333	395	528	591	591	354
85°	71	120	131	127	125	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2202.2	2202.2	2202.2	2202.2	2202.2
2.5°	2210.8	2193.6	2202.2	2200.1	2189.3
5°	2200.1	2185.0	2193.6	2191.5	2189.3
7.5°	2185.0	2170.0	2180.7	2178.6	2180.7
10°	2159.2	2146.3	2159.2	2161.4	2161.4
12.5°	2127.0	2116.3	2133.4	2137.7	2142.0
15°	2092.6	2084.0	2103.4	2112.0	2118.4
17.5°	2049.7	2043.2	2066.8	2077.6	2086.2
20°	2002.4	2000.2	2026.0	2036.8	2047.5
22.5°	1948.7	1948.7	1978.8	1991.6	2006.7
25°	1890.7	1892.8	1927.2	1944.4	1959.4
27.5°	1828.4	1830.5	1871.3	1892.8	1910.0
30°	1759.6	1768.2	1811.2	1839.1	1858.4
32.5°	1690.9	1701.6	1748.9	1781.1	1802.6
35°	1617.8	1630.7	1684.4	1720.9	1744.6
37.5°	1542.6	1557.7	1615.7	1656.5	1684.4
40°	1467.4	1484.6	1544.8	1592.0	1624.3
42.5°	1387.9	1407.3	1473.9	1529.7	1564.1
45°	1308.4	1329.9	1398.7	1465.3	1503.9
47.5°	1228.9	1254.7	1327.8	1400.8	1441.6
50°	1147.3	1173.1	1250.4	1334.2	1375.0
52.5°	1065.6	1095.7	1181.7	1267.6	1308.4
55°	986.2	1016.2	1108.6	1198.9	1239.7
57.5°	904.5	934.6	1035.6	1130.1	1170.9
60°	820.7	855.1	960.4	1057.1	1102.2
62.5°	739.1	775.6	887.3	990.5	1033.4
65°	657.4	696.1	812.1	919.6	962.5
67.5°	573.6	618.8	739.1	848.7	893.8
70°	492.0	541.4	668.2	777.8	820.7
72.5°	412.5	466.2	597.3	709.0	734.8
75°	333.0	395.3	528.5	590.8	590.8
77.5°	257.8	326.6	451.2	474.8	487.7
80°	186.9	262.1	339.5	367.4	363.1
82.5°	124.6	199.8	242.8	242.8	236.3
85°	70.9	120.3	131.1	126.8	124.6
87.5°	30.1	45.1	40.8	32.2	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)