

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-UNV-L830-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-LD5-60-UNV-L830-CD1-U  
Description: CRUZE 2x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

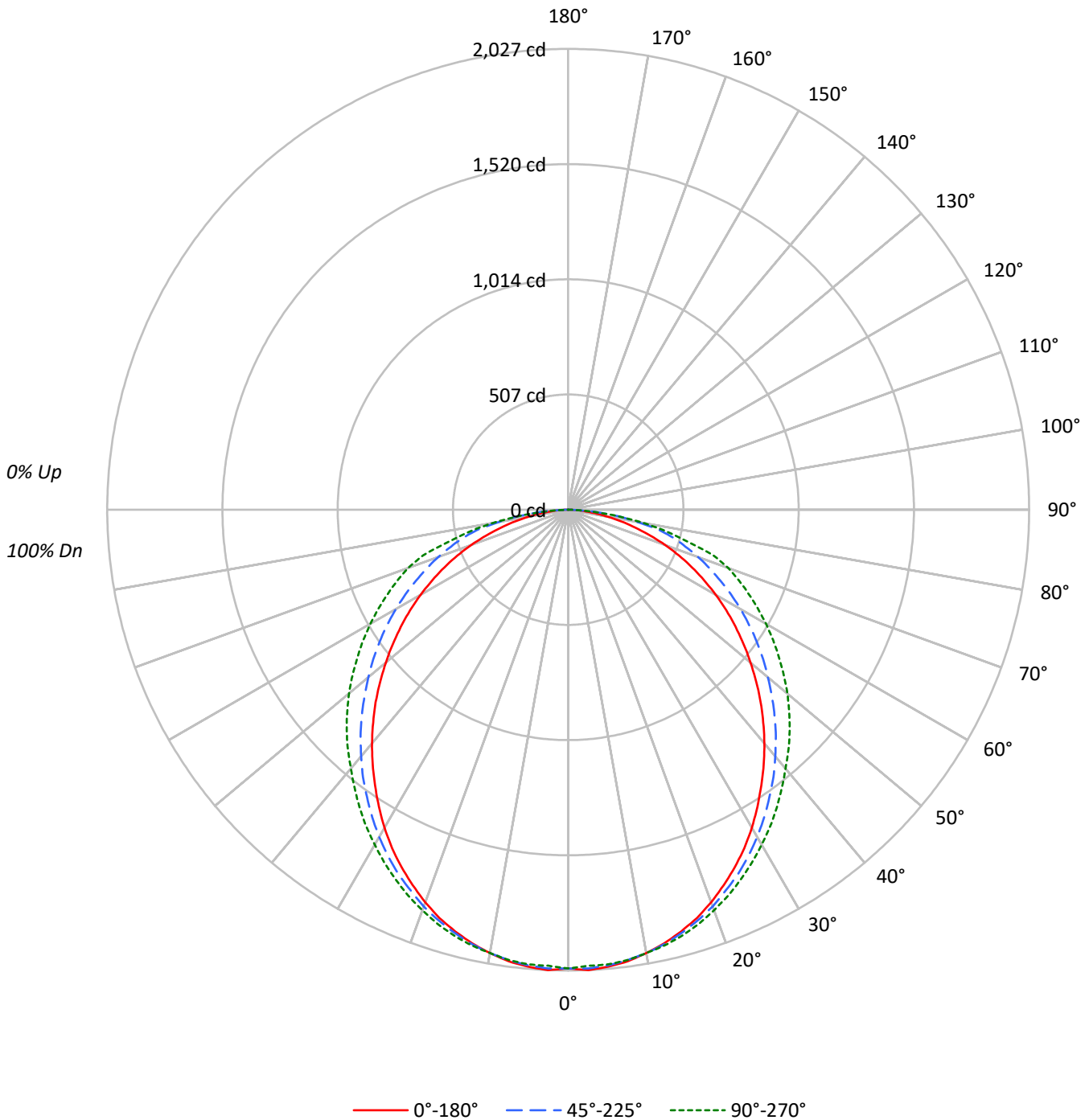
Lumens per Lamp: N/A  
Luminaire Lumens: 5741.2 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 52.17  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	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	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2715	2715	2715
5°	2719	2704	2700
10°	2694	2681	2682
15°	2657	2647	2666
20°	2608	2609	2637
25°	2545	2561	2604
30°	2474	2505	2569
35°	2390	2444	2539
40°	2308	2381	2505
45°	2222	2319	2495
50°	2128	2257	2485
55°	2035	2206	2476
60°	1934	2157	2486
65°	1818	2110	2516
70°	1668	2086	2587
75°	1458	2077	2378
80°	1193	1827	2016
85°	821	1182	1151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.8	3.3
10°-20°	543.0	9.5
20°-30°	811.7	14.1
30°-40°	962.6	16.8
40°-50°	989.9	17.2
50°-60°	905.5	15.8
60°-70°	730.3	12.7
70°-80°	474.1	8.3
80°-90°	133.4	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°	1545.5	26.9
0°-40°	2508.1	43.7
0°-60°	4403.4	76.7
0°-90°	5741.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5741.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2018	2018	2018	2018	2018	
5°	2018	2004	2012	2008	2008	191
15°	1920	1910	1928	1936	1939	541
25°	1734	1734	1768	1781	1795	798
35°	1480	1494	1543	1574	1600	926
45°	1197	1219	1283	1342	1377	923
55°	898	928	1012	1092	1131	803
65°	602	637	738	834	875	595
75°	307	363	478	537	543	327
85°	68	113	123	121	117	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2017.5	2017.5	2017.5	2017.5	2017.5
2.5°	2027.3	2011.6	2019.5	2015.5	2007.7
5°	2017.5	2003.8	2011.6	2007.7	2007.7
7.5°	2003.8	1990.2	1997.9	1997.9	1997.9
10°	1980.4	1968.7	1980.4	1980.4	1980.4
12.5°	1953.1	1943.3	1957.0	1958.9	1962.8
15°	1919.9	1910.1	1927.6	1935.5	1939.4
17.5°	1882.8	1874.9	1894.5	1904.3	1910.1
20°	1837.9	1832.0	1857.3	1867.1	1874.9
22.5°	1787.0	1787.0	1812.4	1824.2	1837.9
25°	1734.3	1734.3	1767.6	1781.2	1794.8
27.5°	1677.7	1679.6	1716.7	1736.3	1750.0
30°	1615.2	1623.0	1662.0	1685.5	1701.2
32.5°	1548.8	1558.6	1603.5	1632.8	1652.3
35°	1480.4	1494.1	1542.9	1574.1	1599.6
37.5°	1412.1	1429.7	1482.4	1517.5	1542.9
40°	1341.8	1361.3	1416.0	1457.0	1486.3
42.5°	1269.5	1291.0	1351.6	1398.4	1433.6
45°	1197.2	1218.8	1283.2	1341.8	1376.9
47.5°	1121.1	1146.5	1214.8	1283.2	1318.3
50°	1046.8	1074.2	1146.5	1220.7	1257.8
52.5°	972.6	1003.9	1080.1	1158.1	1195.3
55°	898.4	927.7	1011.7	1091.7	1130.8
57.5°	824.2	855.5	943.4	1027.3	1068.4
60°	750.0	783.2	875.0	962.8	1003.9
62.5°	673.8	709.0	806.6	898.4	939.5
65°	601.5	636.7	738.2	834.0	875.0
67.5°	527.3	566.4	671.8	769.5	812.4
70°	453.2	496.1	607.4	705.1	748.0
72.5°	378.9	427.7	541.0	638.7	669.9
75°	306.7	363.3	478.5	537.1	542.9
77.5°	240.3	298.8	408.2	431.6	443.4
80°	175.8	240.3	306.7	335.9	334.0
82.5°	117.2	183.6	220.7	224.6	220.7
85°	68.4	113.2	123.0	121.1	117.2
87.5°	29.3	44.9	39.0	33.2	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)