

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-LD5-75-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-LD5-75-UNV-L830-CD1-U  
Description: CRUZE 2x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

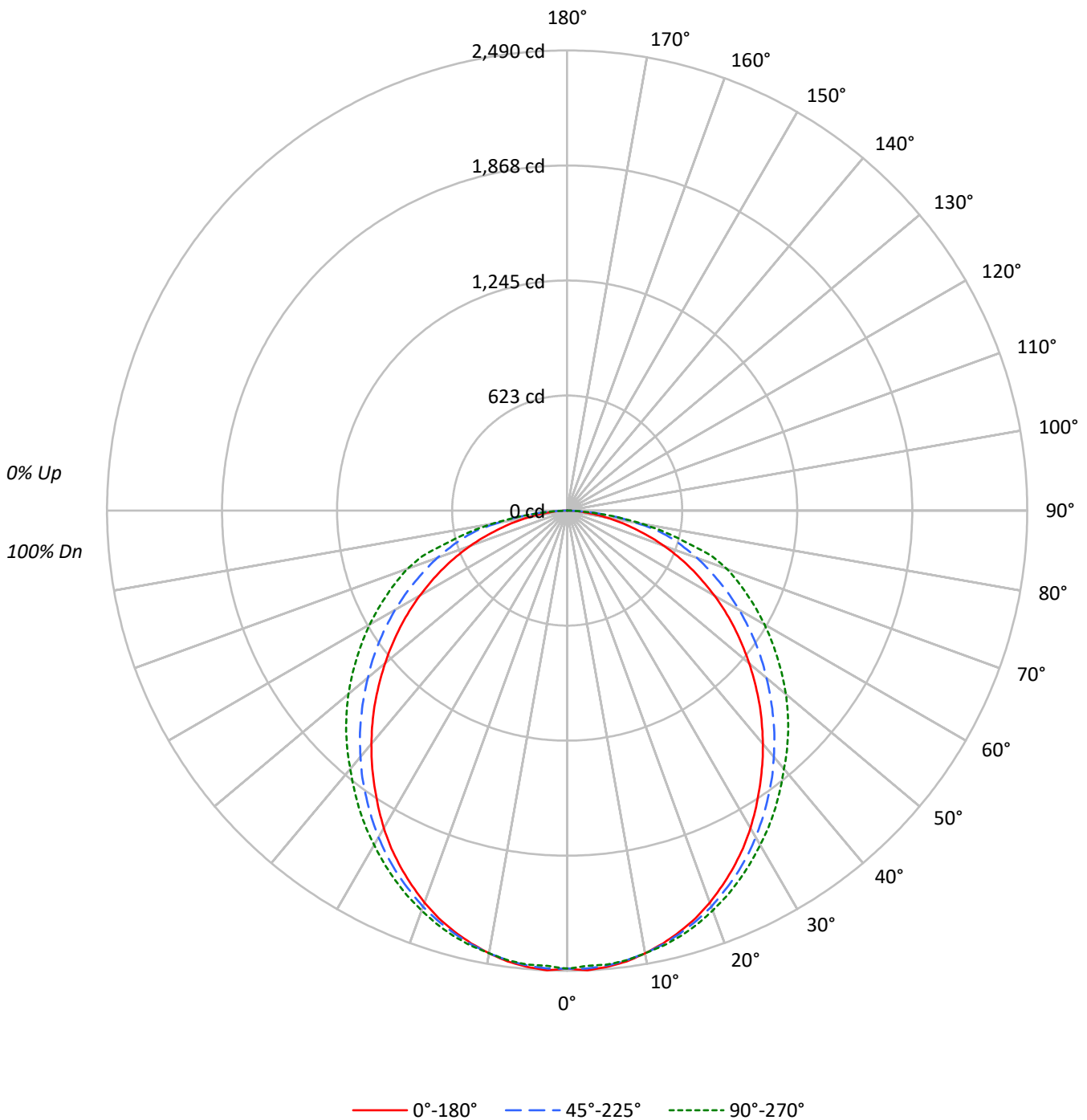
Lumens per Lamp: N/A  
Luminaire Lumens: 7051.6 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 69.06  
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	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					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°	3334	3334	3334
5°	3340	3322	3316
10°	3309	3292	3294
15°	3263	3252	3274
20°	3203	3204	3238
25°	3126	3145	3198
30°	3038	3077	3155
35°	2935	3001	3118
40°	2835	2925	3077
45°	2730	2848	3065
50°	2613	2772	3052
55°	2499	2710	3041
60°	2376	2648	3054
65°	2232	2592	3090
70°	2049	2561	3178
75°	1791	2550	2922
80°	1465	2243	2476
85°	1009	1452	1414



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.3	3.3
10°-20°	667.0	9.5
20°-30°	997.0	14.1
30°-40°	1182.2	16.8
40°-50°	1215.8	17.2
50°-60°	1112.1	15.8
60°-70°	897.0	12.7
70°-80°	582.3	8.3
80°-90°	163.9	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°	1898.3	26.9
0°-40°	3080.5	43.7
0°-60°	5408.4	76.7
0°-90°	7051.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7051.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2478	2478	2478	2478	2478	
5°	2478	2461	2471	2466	2466	235
15°	2358	2346	2368	2377	2382	665
25°	2130	2130	2171	2188	2204	981
35°	1818	1835	1895	1933	1965	1138
45°	1470	1497	1576	1648	1691	1133
55°	1103	1139	1243	1341	1389	987
65°	739	782	907	1024	1075	730
75°	377	446	588	660	667	402
85°	84	139	151	149	144	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2478.0	2478.0	2478.0	2478.0	2478.0
2.5°	2490.0	2470.8	2480.4	2475.6	2466.0
5°	2478.0	2461.2	2470.8	2466.0	2466.0
7.5°	2461.2	2444.4	2454.0	2454.0	2454.0
10°	2432.4	2418.0	2432.4	2432.4	2432.4
12.5°	2398.8	2386.9	2403.6	2406.1	2410.8
15°	2358.1	2346.0	2367.7	2377.3	2382.0
17.5°	2312.5	2302.9	2326.8	2338.9	2346.0
20°	2257.3	2250.1	2281.2	2293.3	2302.9
22.5°	2194.9	2194.9	2226.1	2240.5	2257.3
25°	2130.2	2130.2	2170.9	2187.8	2204.5
27.5°	2060.5	2063.0	2108.5	2132.6	2149.4
30°	1983.8	1993.4	2041.4	2070.1	2089.3
32.5°	1902.3	1914.2	1969.4	2005.4	2029.4
35°	1818.3	1835.1	1895.1	1933.4	1964.6
37.5°	1734.3	1756.0	1820.7	1863.9	1895.1
40°	1648.0	1672.0	1739.2	1789.5	1825.5
42.5°	1559.2	1585.6	1660.0	1717.6	1760.7
45°	1470.5	1496.8	1576.0	1648.0	1691.2
47.5°	1376.9	1408.1	1492.1	1576.0	1619.2
50°	1285.7	1319.4	1408.1	1499.3	1544.9
52.5°	1194.6	1233.0	1326.6	1422.5	1468.0
55°	1103.4	1139.4	1242.6	1340.9	1388.9
57.5°	1012.3	1050.7	1158.6	1261.8	1312.1
60°	921.1	962.0	1074.6	1182.7	1233.0
62.5°	827.6	870.8	990.8	1103.4	1153.9
65°	738.8	782.0	906.8	1024.3	1074.6
67.5°	647.7	695.7	825.2	945.2	997.9
70°	556.5	609.3	746.0	866.0	918.7
72.5°	465.4	525.4	664.4	784.4	822.8
75°	376.6	446.2	587.7	659.7	666.9
77.5°	295.1	367.0	501.3	530.1	544.5
80°	215.9	295.1	376.6	412.6	410.2
82.5°	143.9	225.5	271.0	275.9	271.0
85°	84.0	139.2	151.1	148.8	143.9
87.5°	36.0	55.2	48.0	40.8	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)