

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-L835-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-L835-CD1-U  
Description: CRUZE 2x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

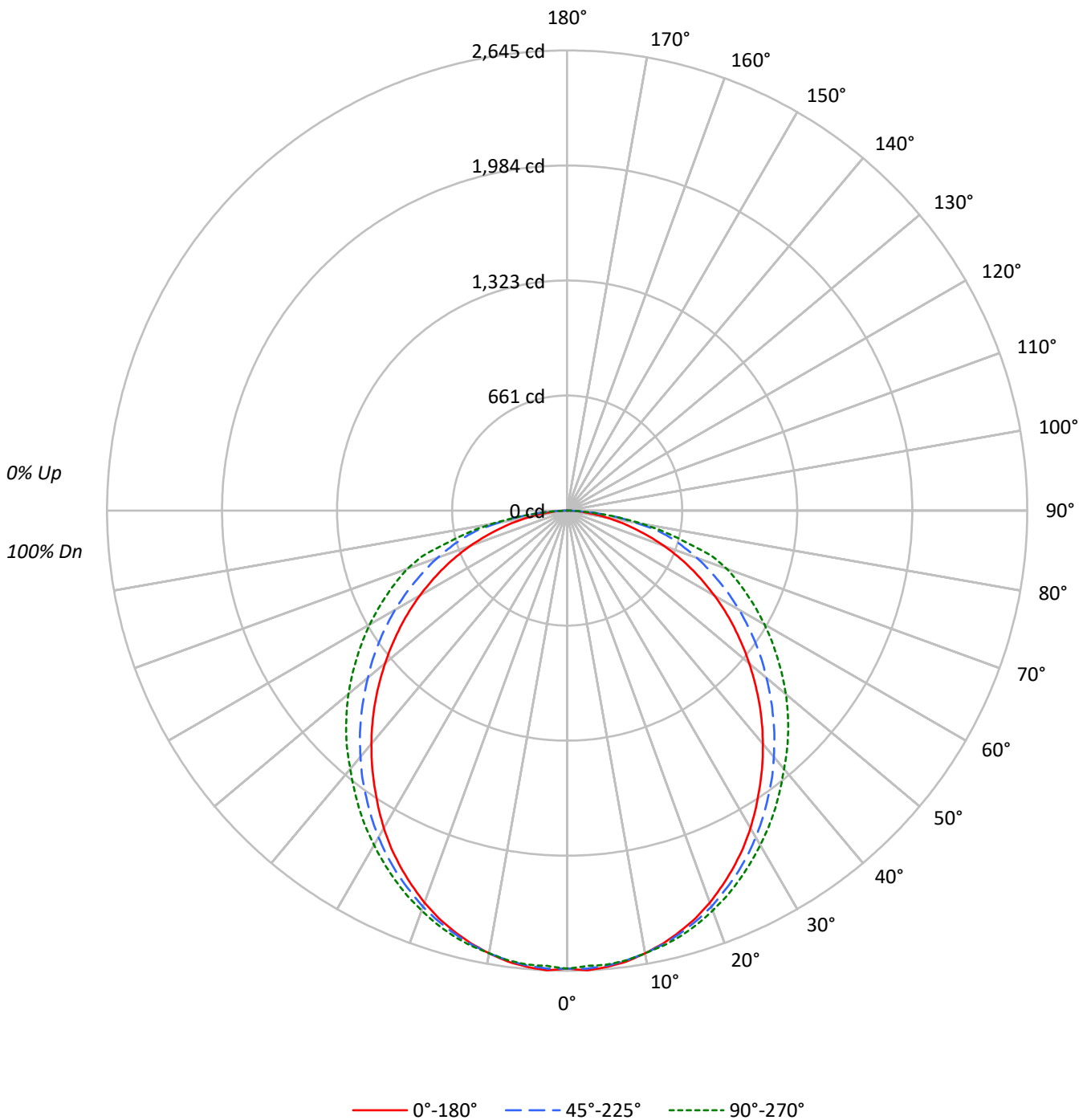
Lumens per Lamp: N/A  
Luminaire Lumens: 7491.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

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°	3542	3542	3542
5°	3548	3529	3523
10°	3515	3498	3500
15°	3466	3454	3478
20°	3403	3404	3440
25°	3321	3341	3398
30°	3228	3269	3352
35°	3118	3188	3312
40°	3012	3107	3269
45°	2900	3025	3256
50°	2776	2945	3242
55°	2655	2878	3231
60°	2524	2814	3244
65°	2372	2754	3283
70°	2176	2721	3376
75°	1902	2709	3104
80°	1556	2383	2631
85°	1071	1543	1502



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.9	3.3
10°-20°	708.5	9.5
20°-30°	1059.1	14.1
30°-40°	1255.9	16.8
40°-50°	1291.6	17.2
50°-60°	1181.4	15.8
60°-70°	952.8	12.7
70°-80°	618.6	8.3
80°-90°	174.1	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°	2016.6	26.9
0°-40°	3272.5	43.7
0°-60°	5745.5	76.7
0°-90°	7491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7491.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2632	2632	2632	2632	2632	
5°	2632	2615	2625	2620	2620	250
15°	2505	2492	2515	2525	2530	706
25°	2263	2263	2306	2324	2342	1042
35°	1932	1950	2013	2054	2087	1209
45°	1562	1590	1674	1751	1797	1204
55°	1172	1210	1320	1424	1476	1048
65°	785	831	963	1088	1142	776
75°	400	474	624	701	708	427
85°	89	148	160	158	153	107
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2632.4	2632.4	2632.4	2632.4	2632.4
2.5°	2645.2	2624.8	2635.0	2629.9	2619.7
5°	2632.4	2614.6	2624.8	2619.7	2619.7
7.5°	2614.6	2596.7	2606.9	2606.9	2606.9
10°	2584.0	2568.7	2584.0	2584.0	2584.0
12.5°	2548.3	2535.6	2553.4	2556.0	2561.1
15°	2505.0	2492.3	2515.2	2525.4	2530.5
17.5°	2456.6	2446.4	2471.9	2484.6	2492.3
20°	2398.0	2390.3	2423.4	2436.2	2446.4
22.5°	2331.7	2331.7	2364.8	2380.1	2398.0
25°	2262.9	2262.9	2306.2	2324.1	2341.9
27.5°	2189.0	2191.6	2240.0	2265.5	2283.3
30°	2107.5	2117.7	2168.6	2199.2	2219.6
32.5°	2020.8	2033.6	2092.2	2130.4	2155.9
35°	1931.6	1949.5	2013.2	2053.9	2087.1
37.5°	1842.4	1865.4	1934.2	1980.0	2013.2
40°	1750.7	1776.2	1847.5	1901.0	1939.3
42.5°	1656.4	1684.4	1763.4	1824.6	1870.5
45°	1562.1	1590.1	1674.2	1750.7	1796.6
47.5°	1462.7	1495.9	1585.1	1674.2	1720.1
50°	1365.9	1401.6	1495.9	1592.7	1641.1
52.5°	1269.1	1309.8	1409.2	1511.2	1559.6
55°	1172.2	1210.4	1320.0	1424.5	1475.5
57.5°	1075.4	1116.2	1230.8	1340.4	1393.9
60°	978.6	1021.9	1141.6	1256.3	1309.8
62.5°	879.2	925.0	1052.5	1172.2	1225.7
65°	784.9	830.8	963.3	1088.1	1141.6
67.5°	688.0	739.0	876.6	1004.0	1060.1
70°	591.2	647.3	792.5	919.9	976.0
72.5°	494.4	558.1	705.9	833.3	874.1
75°	400.1	474.0	624.3	700.8	708.4
77.5°	313.4	389.9	532.6	563.2	578.5
80°	229.3	313.4	400.1	438.3	435.8
82.5°	152.9	239.5	288.0	293.1	288.0
85°	89.2	147.8	160.5	158.0	152.9
87.5°	38.2	58.6	51.0	43.3	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)