

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-LD5-65-UNV-L840-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-LD5-65-UNV-L840-CD1-U  
Description: CRUZE 2x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

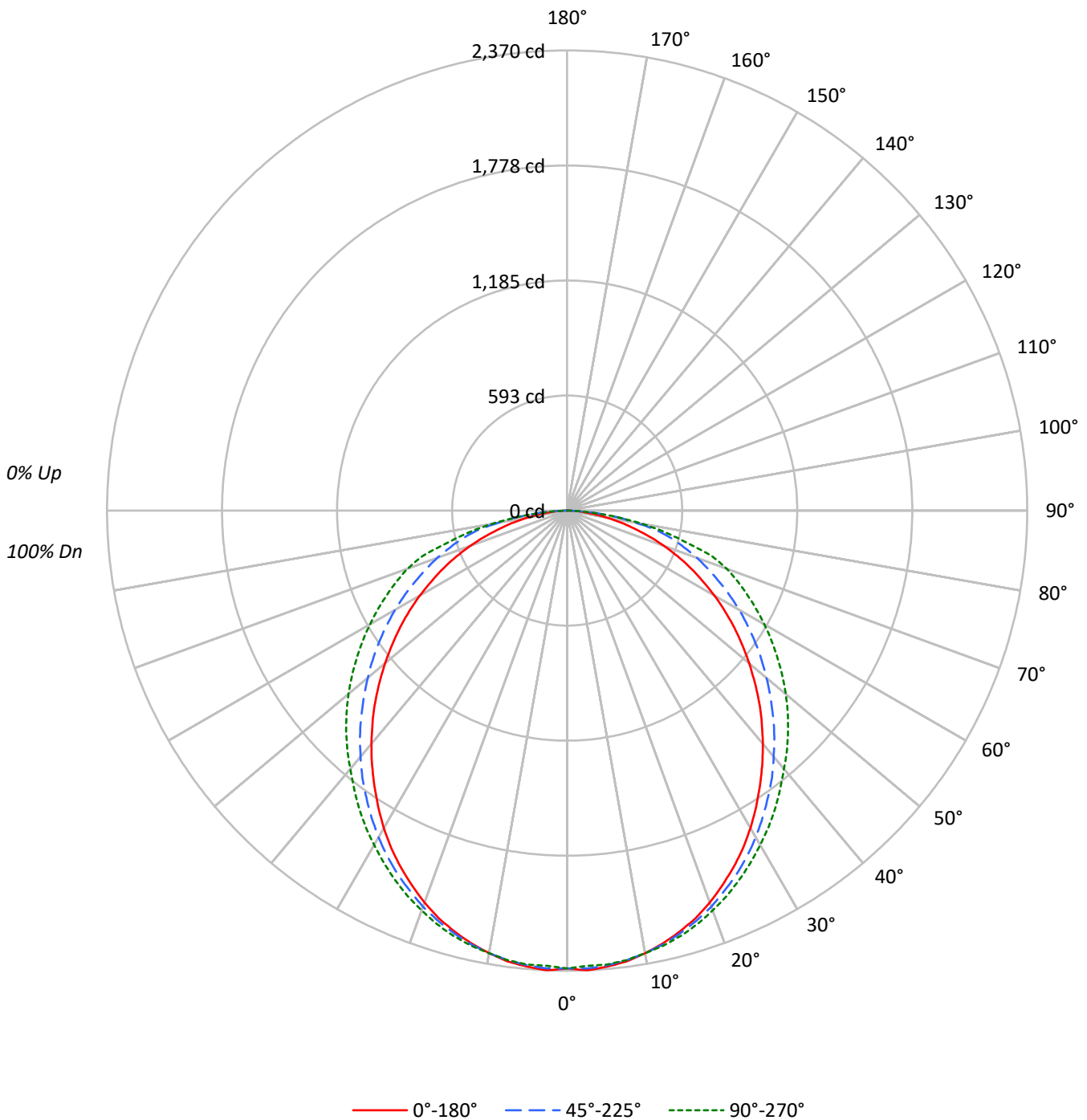
Lumens per Lamp: N/A  
Luminaire Lumens: 6710.6 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 57.64  
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



TEST NUMBER: P#  
CATALOG NUMBER: 24CZ-LD5-65-UNV-L840-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-65-UNV-L840-CD1-U

**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°	3173	3173	3173
5°	3178	3161	3156
10°	3149	3133	3135
15°	3105	3095	3116
20°	3048	3050	3082
25°	2975	2993	3044
30°	2891	2929	3002
35°	2793	2856	2967
40°	2698	2783	2928
45°	2598	2710	2917
50°	2487	2638	2904
55°	2378	2579	2894
60°	2261	2521	2906
65°	2125	2467	2941
70°	1950	2438	3024
75°	1704	2427	2780
80°	1395	2135	2357
85°	959	1382	1346



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-65-UNV-L840-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.0	3.3
10°-20°	634.7	9.5
20°-30°	948.8	14.1
30°-40°	1125.1	16.8
40°-50°	1157.0	17.2
50°-60°	1058.3	15.8
60°-70°	853.6	12.7
70°-80°	554.2	8.3
80°-90°	155.9	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°	1806.5	26.9
0°-40°	2931.6	43.7
0°-60°	5146.9	76.7
0°-90°	6710.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6710.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2358	2342	2351	2347	2347	224
15°	2244	2233	2253	2262	2267	632
25°	2027	2027	2066	2082	2098	933
35°	1730	1746	1803	1840	1870	1083
45°	1399	1424	1500	1568	1609	1079
55°	1050	1084	1182	1276	1322	939
65°	703	744	863	975	1023	695
75°	358	425	559	628	635	382
85°	80	132	144	142	137	96
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-65-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2358.2	2358.2	2358.2	2358.2	2358.2
2.5°	2369.6	2351.3	2360.4	2355.9	2346.7
5°	2358.2	2342.2	2351.3	2346.7	2346.7
7.5°	2342.2	2326.2	2335.3	2335.3	2335.3
10°	2314.8	2301.1	2314.8	2314.8	2314.8
12.5°	2282.8	2271.4	2287.4	2289.7	2294.2
15°	2244.0	2232.6	2253.2	2262.3	2266.8
17.5°	2200.6	2191.5	2214.3	2225.8	2232.6
20°	2148.1	2141.3	2171.0	2182.4	2191.5
22.5°	2088.8	2088.8	2118.5	2132.2	2148.1
25°	2027.2	2027.2	2066.0	2081.9	2097.9
27.5°	1961.0	1963.2	2006.6	2029.4	2045.4
30°	1887.9	1897.0	1942.7	1970.1	1988.3
32.5°	1810.3	1821.7	1874.2	1908.4	1931.3
35°	1730.4	1746.4	1803.4	1840.0	1869.6
37.5°	1650.5	1671.0	1732.7	1773.8	1803.4
40°	1568.3	1591.1	1655.1	1703.0	1737.2
42.5°	1483.8	1509.0	1579.7	1634.5	1675.6
45°	1399.4	1424.5	1499.8	1568.3	1609.4
47.5°	1310.3	1340.0	1419.9	1499.8	1540.9
50°	1223.6	1255.6	1340.0	1426.8	1470.1
52.5°	1136.8	1173.4	1262.4	1353.7	1397.1
55°	1050.1	1084.3	1182.5	1276.1	1321.8
57.5°	963.4	999.9	1102.6	1200.8	1248.7
60°	876.6	915.4	1022.7	1125.4	1173.4
62.5°	787.6	828.7	942.8	1050.1	1098.0
65°	703.1	744.2	862.9	974.8	1022.7
67.5°	616.4	662.0	785.3	899.4	949.7
70°	529.6	579.8	710.0	824.1	874.3
72.5°	442.9	499.9	632.3	746.5	783.0
75°	358.4	424.6	559.3	627.8	634.6
77.5°	280.8	349.3	477.1	504.5	518.2
80°	205.5	280.8	358.4	392.6	390.4
82.5°	137.0	214.6	258.0	262.5	258.0
85°	79.9	132.4	143.8	141.5	137.0
87.5°	34.2	52.5	45.7	38.8	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)