

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: P260750

Luminaire Tested: **24CZ-LD5-55-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260750  
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-LD5-55-UNV-L82765-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5540.0 lumens  
Efficiency: N/A  
Efficacy: 136.6 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

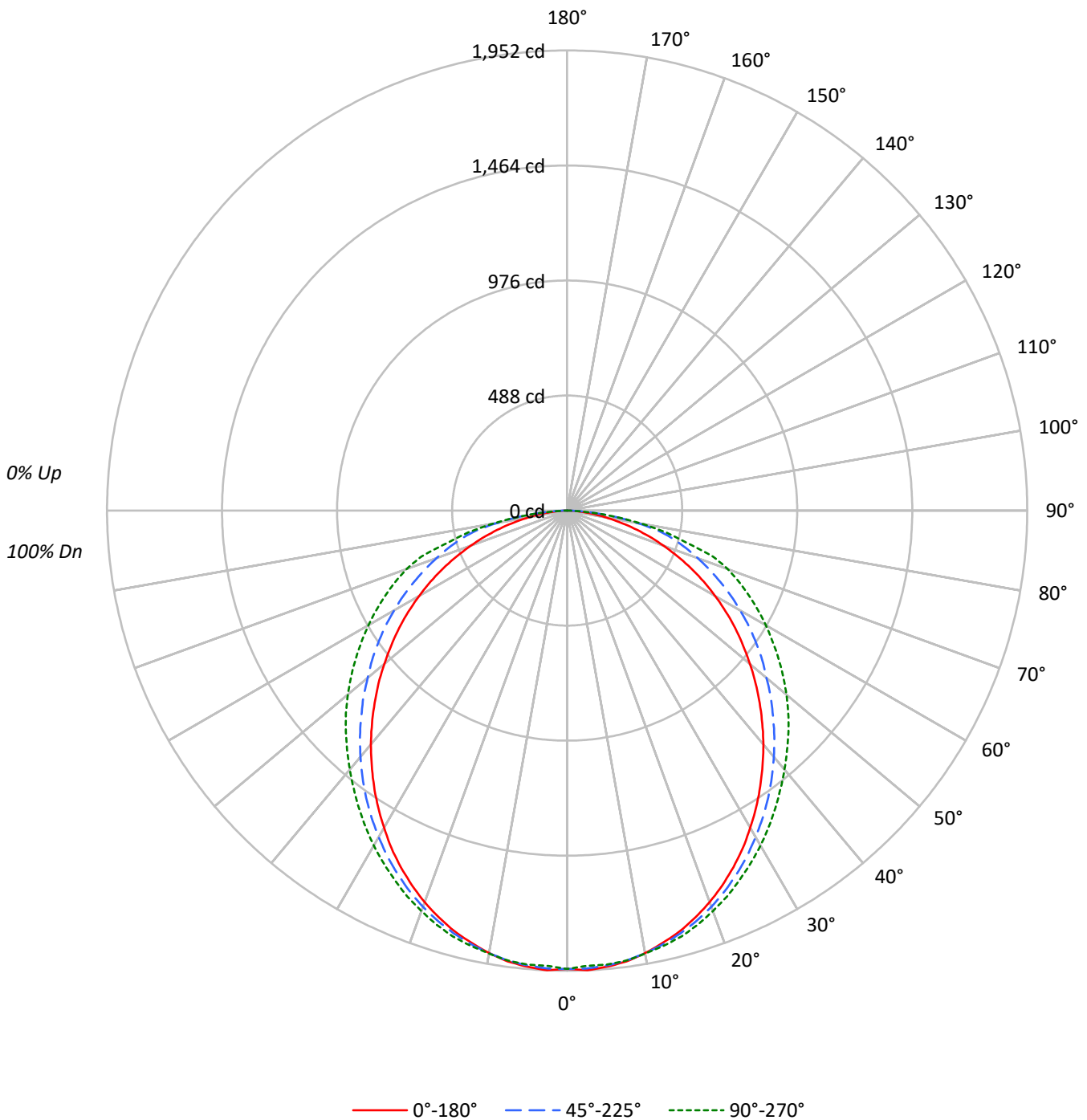
Input Watts (W): 40.548  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2616	2616	2616
5°	2623	2616	2611
10°	2604	2604	2607
15°	2573	2587	2605
20°	2531	2561	2588
25°	2478	2526	2568
30°	2414	2484	2549
35°	2346	2443	2530
40°	2275	2395	2519
45°	2198	2350	2527
50°	2120	2311	2541
55°	2042	2296	2567
60°	1950	2282	2619
65°	1848	2283	2706
70°	1709	2321	2851
75°	1528	2426	2712
80°	1278	2322	2484
85°	966	1786	1698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.7	3.3
10°-20°	522.9	9.4
20°-30°	781.7	14.1
30°-40°	927.4	16.7
40°-50°	954.5	17.2
50°-60°	875.6	15.8
60°-70°	708.0	12.8
70°-80°	459.5	8.3
80°-90°	126.7	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°	1488.3	26.9
0°-40°	2415.7	43.6
0°-60°	4245.8	76.6
0°-90°	5540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5540.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1942	1929	1937	1935	1933	184
15°	1848	1840	1857	1865	1870	520
25°	1669	1671	1702	1717	1730	768
35°	1428	1440	1487	1519	1540	893
45°	1155	1174	1235	1294	1328	891
55°	871	897	979	1058	1094	778
65°	580	615	717	812	850	574
75°	294	349	467	522	522	312
85°	63	106	116	112	110	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1944.3	1944.3	1944.3	1944.3	1944.3
2.5°	1951.8	1936.7	1944.3	1942.4	1932.9
5°	1942.4	1929.1	1936.7	1934.8	1932.9
7.5°	1929.1	1915.8	1925.3	1923.4	1925.3
10°	1906.3	1894.9	1906.3	1908.2	1908.2
12.5°	1877.9	1868.4	1883.6	1887.3	1891.1
15°	1847.5	1839.9	1857.0	1864.6	1870.3
17.5°	1809.6	1803.9	1824.8	1834.2	1841.8
20°	1767.8	1765.9	1788.7	1798.2	1807.7
22.5°	1720.4	1720.4	1747.0	1758.4	1771.6
25°	1669.2	1671.1	1701.5	1716.6	1729.9
27.5°	1614.2	1616.1	1652.1	1671.1	1686.3
30°	1553.5	1561.1	1599.0	1623.7	1640.8
32.5°	1492.8	1502.3	1544.0	1572.5	1591.4
35°	1428.3	1439.7	1487.1	1519.4	1540.2
37.5°	1361.9	1375.2	1426.4	1462.5	1487.1
40°	1295.5	1310.7	1363.8	1405.6	1434.0
42.5°	1225.4	1242.4	1301.2	1350.5	1380.9
45°	1155.2	1174.1	1234.8	1293.6	1327.8
47.5°	1085.0	1107.7	1172.2	1236.7	1272.8
50°	1012.9	1035.7	1104.0	1177.9	1214.0
52.5°	940.8	967.4	1043.3	1119.1	1155.2
55°	870.6	897.2	978.8	1058.4	1094.5
57.5°	798.6	825.1	914.3	997.7	1033.8
60°	724.6	754.9	847.9	933.2	973.1
62.5°	652.5	684.8	783.4	874.4	912.4
65°	580.4	614.6	717.0	811.8	849.8
67.5°	506.5	546.3	652.5	749.2	789.1
70°	434.4	478.0	589.9	686.7	724.6
72.5°	364.2	411.6	527.3	626.0	648.7
75°	294.0	349.0	466.6	521.6	521.6
77.5°	227.6	288.3	398.3	419.2	430.6
80°	165.0	231.4	299.7	324.4	320.6
82.5°	110.0	176.4	214.3	214.3	208.7
85°	62.6	106.2	115.7	111.9	110.0
87.5°	26.6	39.8	36.0	28.5	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)