

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: P260756

Luminaire Tested: **24CZ-LD5-60-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260756  
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-LD5-60-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5535.0 lumens  
Efficiency: N/A  
Efficacy: 125.0 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

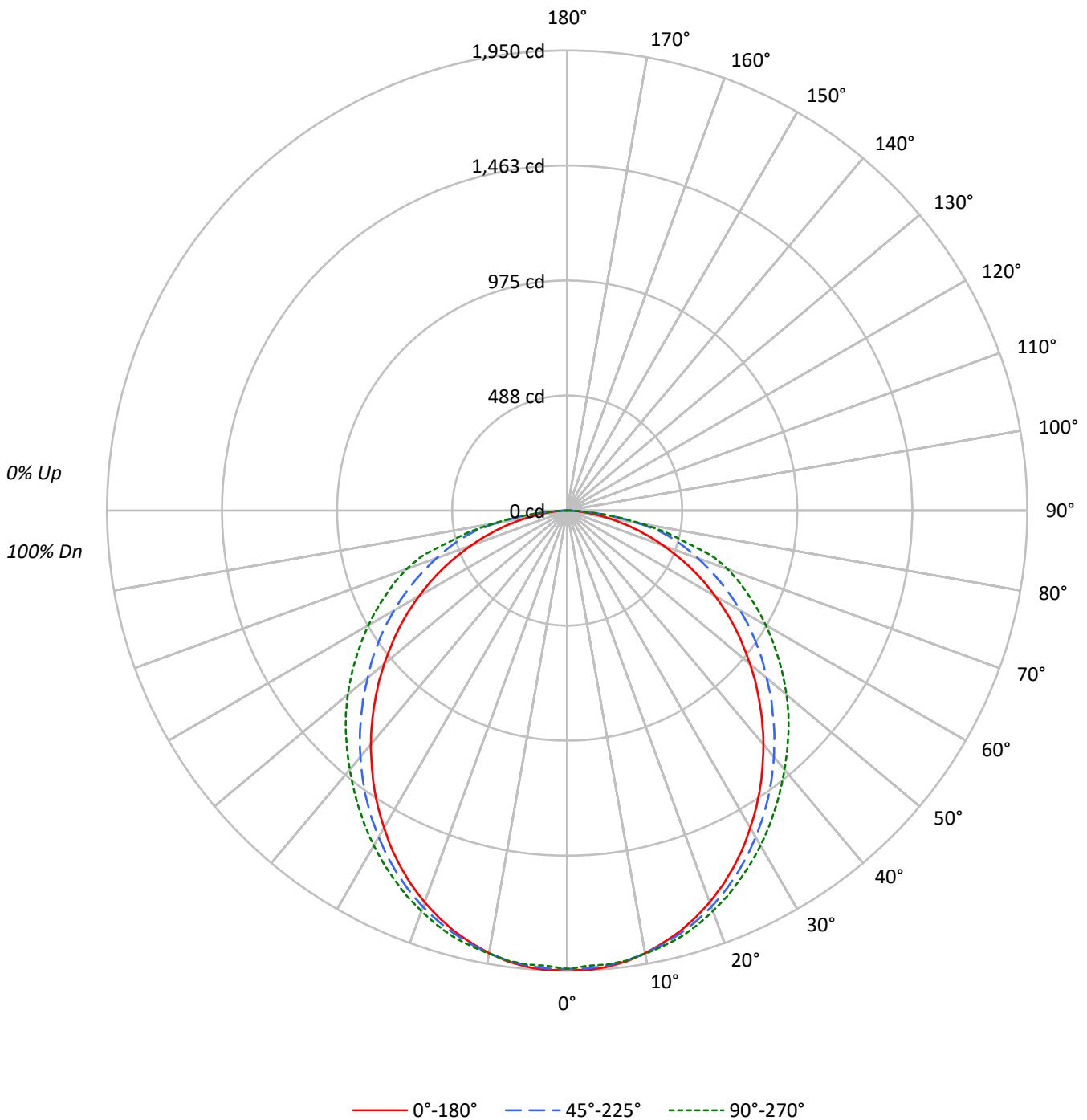
Input Watts (W): 44.268  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2614	2614	2614
5°	2621	2613	2608
10°	2602	2602	2605
15°	2571	2584	2603
20°	2529	2559	2586
25°	2476	2524	2566
30°	2411	2482	2547
35°	2344	2440	2528
40°	2273	2393	2516
45°	2196	2347	2524
50°	2118	2309	2539
55°	2041	2294	2565
60°	1948	2280	2616
65°	1846	2281	2703
70°	1707	2319	2848
75°	1527	2424	2709
80°	1278	2320	2482
85°	965	1785	1697



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.6	3.3
10°-20°	522.4	9.4
20°-30°	781.0	14.1
30°-40°	926.5	16.7
40°-50°	953.6	17.2
50°-60°	874.8	15.8
60°-70°	707.3	12.8
70°-80°	459.1	8.3
80°-90°	126.6	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°	1487.0	26.9
0°-40°	2413.5	43.6
0°-60°	4242.0	76.6
0°-90°	5535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1941	1927	1935	1933	1931	184
15°	1846	1838	1855	1863	1869	520
25°	1668	1670	1700	1715	1728	768
35°	1427	1438	1486	1518	1539	892
45°	1154	1173	1234	1292	1327	891
55°	870	896	978	1058	1094	777
65°	580	614	716	811	849	573
75°	294	349	466	521	521	312
85°	62	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°	1942.5	1942.5	1942.5	1942.5	1942.5
2.5°	1950.1	1934.9	1942.5	1940.6	1931.1
5°	1940.6	1927.3	1934.9	1933.0	1931.1
7.5°	1927.3	1914.1	1923.5	1921.7	1923.5
10°	1904.6	1893.2	1904.6	1906.5	1906.5
12.5°	1876.2	1866.7	1881.9	1885.6	1889.4
15°	1845.8	1838.3	1855.3	1862.9	1868.6
17.5°	1807.9	1802.3	1823.1	1832.6	1840.2
20°	1766.3	1764.4	1787.1	1796.6	1806.0
22.5°	1718.9	1718.9	1745.4	1756.8	1770.0
25°	1667.7	1669.6	1699.9	1715.1	1728.3
27.5°	1612.7	1614.6	1650.6	1669.6	1684.8
30°	1552.1	1559.7	1597.6	1622.2	1639.3
32.5°	1491.5	1500.9	1542.6	1571.1	1590.0
35°	1427.0	1438.4	1485.8	1518.0	1538.8
37.5°	1360.7	1374.0	1425.1	1461.1	1485.8
40°	1294.4	1309.5	1362.6	1404.3	1432.7
42.5°	1224.2	1241.3	1300.1	1349.3	1379.6
45°	1154.1	1173.1	1233.7	1292.5	1326.6
47.5°	1084.0	1106.7	1171.2	1235.6	1271.6
50°	1012.0	1034.7	1103.0	1176.9	1212.9
52.5°	940.0	966.5	1042.3	1118.1	1154.1
55°	869.9	896.4	977.9	1057.5	1093.5
57.5°	797.8	824.4	913.4	996.8	1032.8
60°	723.9	754.3	847.1	932.4	972.2
62.5°	651.9	684.1	782.7	873.6	911.6
65°	579.9	614.0	716.4	811.1	849.0
67.5°	506.0	545.8	651.9	748.6	788.4
70°	434.0	477.6	589.4	686.0	723.9
72.5°	363.9	411.2	526.8	625.4	648.1
75°	293.7	348.7	466.2	521.2	521.2
77.5°	227.4	288.1	398.0	418.8	430.2
80°	164.9	231.2	299.4	324.1	320.3
82.5°	109.9	176.2	214.1	214.1	208.5
85°	62.5	106.1	115.6	111.8	109.9
87.5°	26.5	39.8	36.0	28.4	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)