

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: P263435

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263435  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4381.0 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

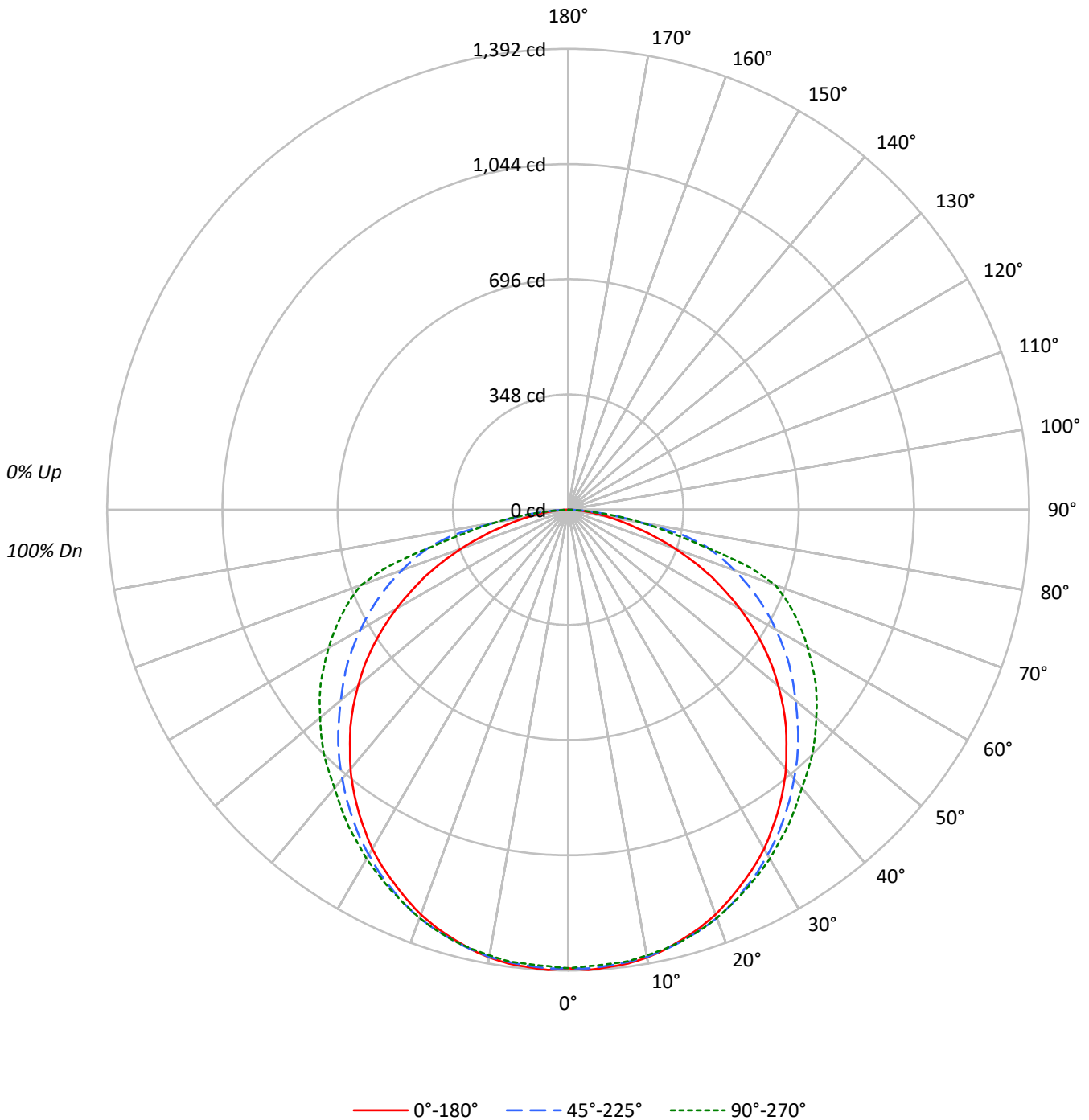
Input Watts (W): 55.149  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1863	1863	1863
5°	1874	1868	1861
10°	1877	1874	1867
15°	1869	1875	1875
20°	1863	1879	1879
25°	1848	1875	1881
30°	1839	1870	1892
35°	1818	1866	1907
40°	1796	1864	1928
45°	1770	1869	1985
50°	1734	1876	2046
55°	1688	1911	2139
60°	1614	1949	2247
65°	1513	2010	2406
70°	1353	2101	2617
75°	1118	2247	2165
80°	912	1736	1753
85°	733	1153	1084



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.5	3.0
10°-20°	379.5	8.7
20°-30°	580.1	13.2
30°-40°	709.5	16.2
40°-50°	759.1	17.3
50°-60°	726.9	16.6
60°-70°	614.9	14.0
70°-80°	389.8	8.9
80°-90°	89.7	2.0
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°	1091.2	24.9
0°-40°	1800.6	41.1
0°-60°	3286.6	75.0
0°-90°	4381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4381.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1387	1380	1383	1380	1378	132
15°	1342	1340	1346	1346	1346	379
25°	1245	1245	1263	1267	1267	574
35°	1107	1113	1136	1152	1161	692
45°	930	946	982	1023	1043	716
55°	720	742	815	882	912	642
65°	475	520	631	717	756	468
75°	215	303	432	430	416	234
85°	48	72	75	68	70	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1384.9	1384.9	1384.9	1384.9	1384.9
2.5°	1391.7	1384.9	1387.2	1384.9	1380.4
5°	1387.2	1380.4	1382.7	1380.4	1378.1
7.5°	1382.7	1375.9	1378.1	1375.9	1375.9
10°	1373.6	1366.8	1371.3	1369.1	1366.8
12.5°	1360.0	1355.5	1360.0	1357.8	1357.8
15°	1341.9	1339.7	1346.4	1346.4	1346.4
17.5°	1323.8	1321.6	1330.6	1330.6	1330.6
20°	1301.2	1298.9	1312.5	1312.5	1312.5
22.5°	1274.0	1271.8	1289.9	1289.9	1289.9
25°	1244.6	1244.6	1262.7	1267.2	1267.2
27.5°	1215.2	1215.2	1235.6	1242.4	1242.4
30°	1183.5	1183.5	1203.9	1212.9	1217.5
32.5°	1145.0	1149.6	1172.2	1183.5	1188.0
35°	1106.6	1113.4	1136.0	1151.8	1160.9
37.5°	1065.8	1072.6	1099.8	1117.9	1129.2
40°	1022.8	1031.9	1061.3	1083.9	1097.5
42.5°	975.3	988.9	1022.8	1052.3	1070.4
45°	930.1	945.9	982.1	1022.8	1043.2
47.5°	880.3	898.4	939.1	991.2	1011.5
50°	828.2	846.3	896.1	955.0	977.6
52.5°	776.2	796.6	855.4	918.8	945.9
55°	719.6	742.2	814.7	882.5	912.0
57.5°	660.8	687.9	769.4	841.8	873.5
60°	599.7	633.6	724.1	801.1	835.0
62.5°	536.3	577.0	678.9	760.3	796.6
65°	475.2	520.5	631.4	717.4	755.8
67.5°	409.6	466.2	583.8	676.6	712.8
70°	344.0	409.6	534.1	629.1	665.3
72.5°	278.3	357.5	484.3	570.3	570.3
75°	215.0	303.2	432.2	430.0	416.4
77.5°	162.9	253.4	355.3	303.2	305.5
80°	117.7	203.7	224.0	224.0	226.3
82.5°	79.2	156.1	144.8	142.6	147.1
85°	47.5	72.4	74.7	67.9	70.2
87.5°	22.6	24.9	20.4	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)