

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: P263302

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263302  
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-L82765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4879.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 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

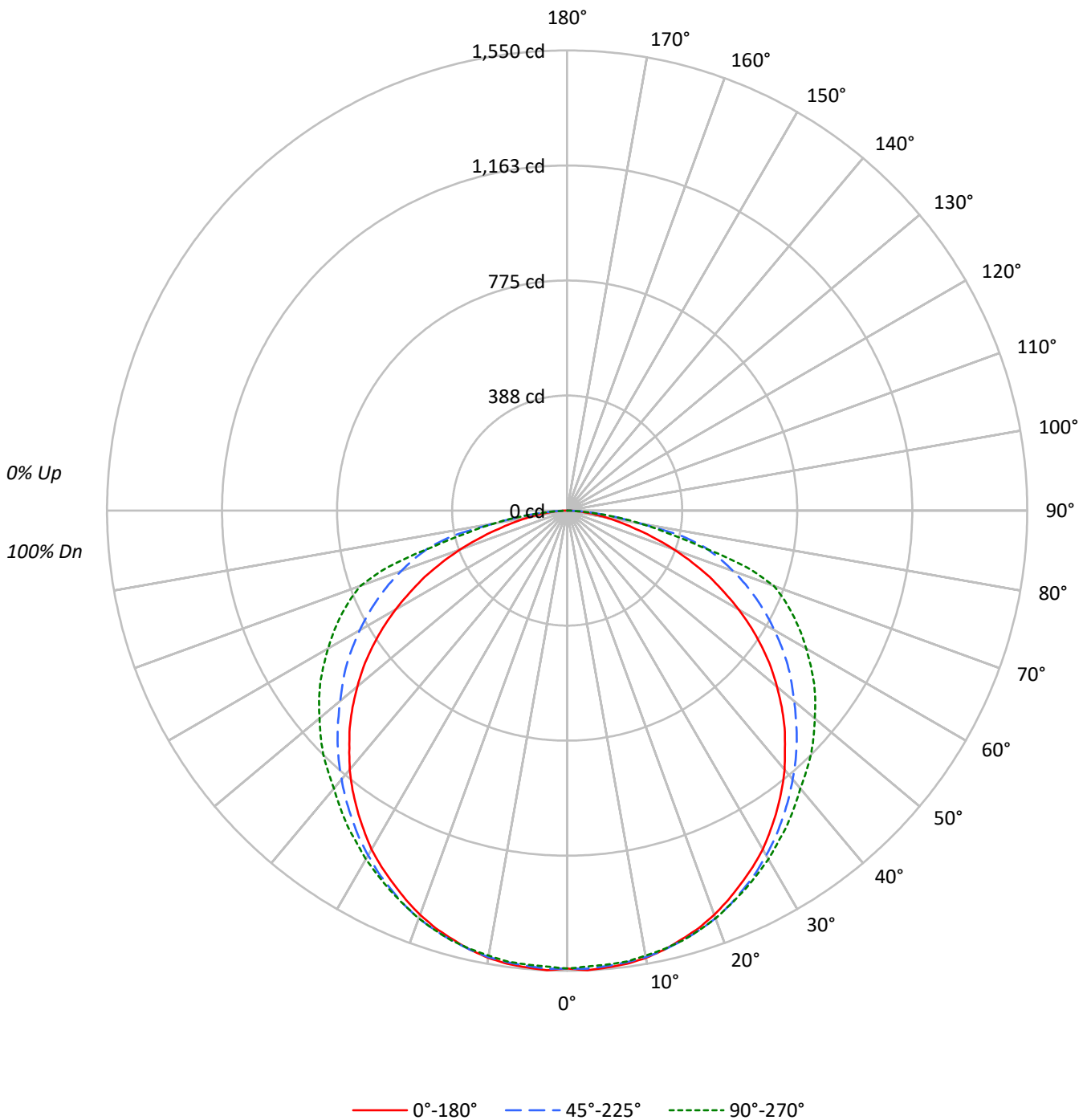
Input Watts (W): 56.079  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2075	2075	2075
5°	2087	2080	2073
10°	2090	2087	2080
15°	2082	2089	2089
20°	2075	2093	2093
25°	2058	2088	2095
30°	2048	2083	2107
35°	2024	2078	2123
40°	2001	2076	2147
45°	1971	2081	2211
50°	1931	2089	2279
55°	1880	2128	2382
60°	1797	2170	2502
65°	1685	2238	2680
70°	1507	2340	2915
75°	1245	2503	2411
80°	1015	1933	1953
85°	817	1284	1206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	3.0
10°-20°	422.7	8.7
20°-30°	646.0	13.2
30°-40°	790.1	16.2
40°-50°	845.4	17.3
50°-60°	809.5	16.6
60°-70°	684.8	14.0
70°-80°	434.1	8.9
80°-90°	99.9	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°	1215.2	24.9
0°-40°	2005.3	41.1
0°-60°	3660.2	75.0
0°-90°	4879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4879.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1545	1537	1540	1537	1535	147
15°	1494	1492	1500	1500	1500	422
25°	1386	1386	1406	1411	1411	640
35°	1232	1240	1265	1283	1293	771
45°	1036	1053	1094	1139	1162	798
55°	801	827	907	983	1016	715
65°	529	580	703	799	842	521
75°	239	338	481	479	464	260
85°	53	81	83	76	78	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1542.3	1542.3	1542.3	1542.3	1542.3
2.5°	1549.9	1542.3	1544.9	1542.3	1537.3
5°	1544.9	1537.3	1539.8	1537.3	1534.8
7.5°	1539.8	1532.3	1534.8	1532.3	1532.3
10°	1529.7	1522.2	1527.2	1524.7	1522.2
12.5°	1514.6	1509.6	1514.6	1512.1	1512.1
15°	1494.5	1491.9	1499.5	1499.5	1499.5
17.5°	1474.3	1471.8	1481.9	1481.9	1481.9
20°	1449.1	1446.6	1461.7	1461.7	1461.7
22.5°	1418.9	1416.3	1436.5	1436.5	1436.5
25°	1386.1	1386.1	1406.3	1411.3	1411.3
27.5°	1353.3	1353.3	1376.0	1383.6	1383.6
30°	1318.0	1318.0	1340.7	1350.8	1355.9
32.5°	1275.2	1280.2	1305.4	1318.0	1323.1
35°	1232.4	1239.9	1265.1	1282.8	1292.8
37.5°	1187.0	1194.6	1224.8	1245.0	1257.6
40°	1139.1	1149.2	1182.0	1207.2	1222.3
42.5°	1086.2	1101.3	1139.1	1171.9	1192.0
45°	1035.8	1053.4	1093.8	1139.1	1161.8
47.5°	980.3	1000.5	1045.9	1103.8	1126.5
50°	922.4	942.5	998.0	1063.5	1088.7
52.5°	864.4	887.1	952.6	1023.2	1053.4
55°	801.4	826.6	907.3	982.9	1015.6
57.5°	735.9	766.1	856.9	937.5	972.8
60°	667.8	705.6	806.5	892.1	929.9
62.5°	597.3	642.6	756.1	846.8	887.1
65°	529.2	579.6	703.1	798.9	841.7
67.5°	456.2	519.2	650.2	753.5	793.9
70°	383.1	456.2	594.8	700.6	740.9
72.5°	310.0	398.2	539.3	635.1	635.1
75°	239.4	337.7	481.4	478.8	463.7
77.5°	181.5	282.3	395.7	337.7	340.2
80°	131.0	226.8	249.5	249.5	252.0
82.5°	88.2	173.9	161.3	158.8	163.8
85°	52.9	80.6	83.2	75.6	78.1
87.5°	25.2	27.7	22.7	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)