

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: P263305

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263305  
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-LD5-75-SQP-UNV-L82765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4874.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 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

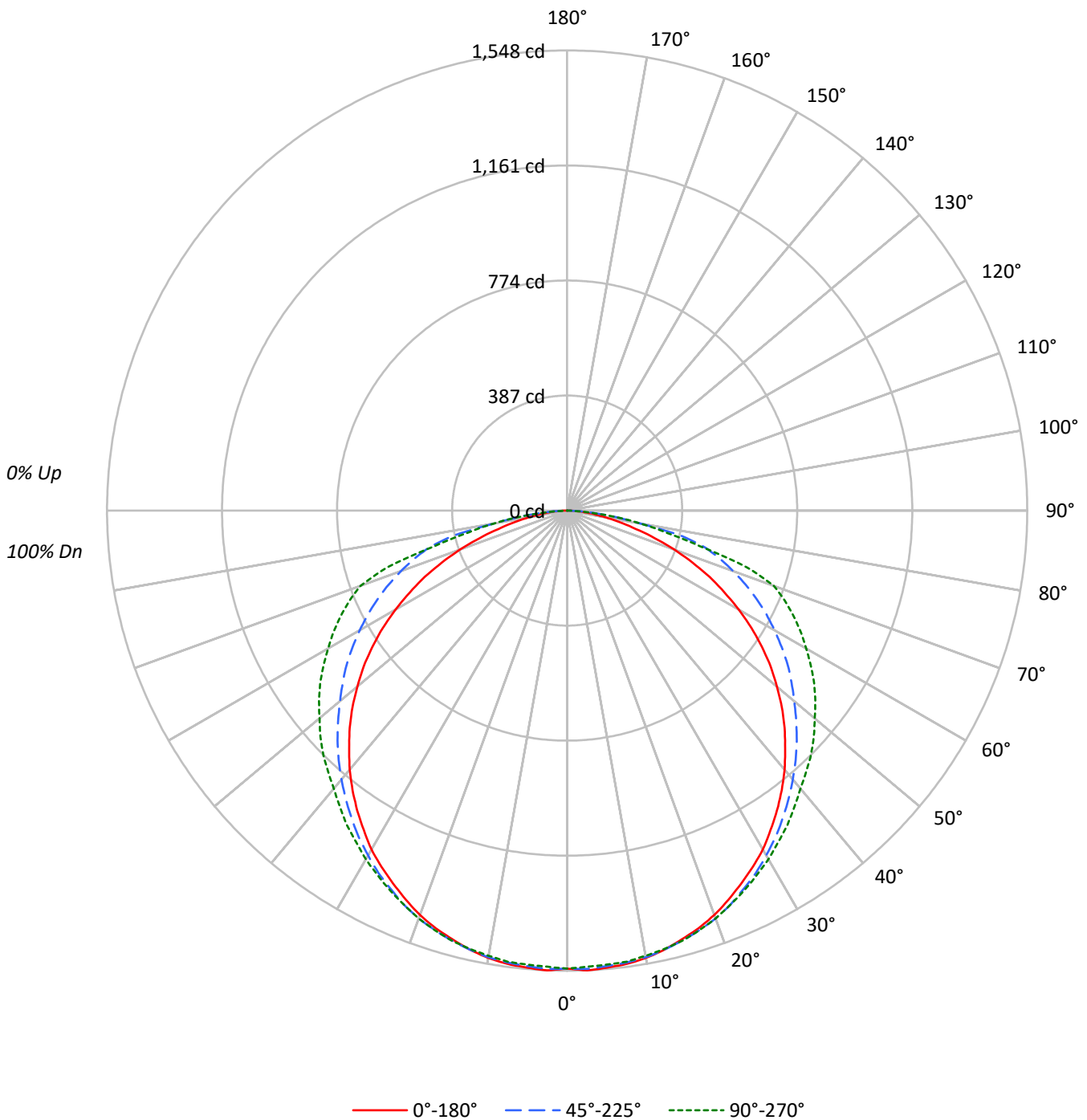
Input Watts (W): 58.683  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

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

	0°	45°	90°
0°	2073	2073	2073
5°	2084	2078	2071
10°	2088	2084	2078
15°	2080	2087	2087
20°	2073	2091	2091
25°	2056	2086	2093
30°	2046	2081	2104
35°	2022	2076	2121
40°	1999	2074	2145
45°	1969	2079	2208
50°	1929	2087	2277
55°	1878	2126	2380
60°	1795	2168	2500
65°	1683	2236	2677
70°	1506	2338	2912
75°	1243	2500	2408
80°	1014	1931	1951
85°	817	1283	1204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.3	3.0
10°-20°	422.3	8.7
20°-30°	645.4	13.2
30°-40°	789.3	16.2
40°-50°	844.5	17.3
50°-60°	808.7	16.6
60°-70°	684.1	14.0
70°-80°	433.7	8.9
80°-90°	99.8	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°	1213.9	24.9
0°-40°	2003.2	41.1
0°-60°	3656.5	75.0
0°-90°	4874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1543	1536	1538	1536	1533	147
15°	1493	1490	1498	1498	1498	422
25°	1385	1385	1405	1410	1410	639
35°	1231	1239	1264	1282	1292	770
45°	1035	1052	1093	1138	1161	797
55°	801	826	906	982	1015	714
65°	529	579	702	798	841	521
75°	239	337	481	478	463	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°	1540.8	1540.8	1540.8	1540.8	1540.8
2.5°	1548.3	1540.8	1543.3	1540.8	1535.7
5°	1543.3	1535.7	1538.2	1535.7	1533.2
7.5°	1538.2	1530.7	1533.2	1530.7	1530.7
10°	1528.2	1520.6	1525.7	1523.1	1520.6
12.5°	1513.1	1508.0	1513.1	1510.6	1510.6
15°	1492.9	1490.4	1498.0	1498.0	1498.0
17.5°	1472.8	1470.3	1480.3	1480.3	1480.3
20°	1447.6	1445.1	1460.2	1460.2	1460.2
22.5°	1417.4	1414.9	1435.0	1435.0	1435.0
25°	1384.7	1384.7	1404.8	1409.8	1409.8
27.5°	1351.9	1351.9	1374.6	1382.2	1382.2
30°	1316.7	1316.7	1339.4	1349.4	1354.5
32.5°	1273.9	1278.9	1304.1	1316.7	1321.7
35°	1231.1	1238.7	1263.8	1281.5	1291.5
37.5°	1185.8	1193.3	1223.5	1243.7	1256.3
40°	1137.9	1148.0	1180.7	1205.9	1221.0
42.5°	1085.1	1100.2	1137.9	1170.7	1190.8
45°	1034.7	1052.4	1092.6	1137.9	1160.6
47.5°	979.3	999.5	1044.8	1102.7	1125.4
50°	921.4	941.6	997.0	1062.4	1087.6
52.5°	863.5	886.2	951.6	1022.1	1052.4
55°	800.6	825.8	906.3	981.9	1014.6
57.5°	735.1	765.3	856.0	936.5	971.8
60°	667.2	704.9	805.6	891.2	929.0
62.5°	596.7	642.0	755.3	845.9	886.2
65°	528.7	579.0	702.4	798.1	840.9
67.5°	455.7	518.6	649.5	752.8	793.0
70°	382.7	455.7	594.2	699.9	740.2
72.5°	309.7	397.8	538.8	634.4	634.4
75°	239.2	337.4	480.9	478.3	463.2
77.5°	181.3	282.0	395.3	337.4	339.9
80°	130.9	226.6	249.2	249.2	251.8
82.5°	88.1	173.7	161.1	158.6	163.6
85°	52.9	80.6	83.1	75.5	78.0
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)