

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: P263441

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263441  
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-L92765-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4408.0 lumens  
Efficiency: N/A  
Efficacy: 74.6 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

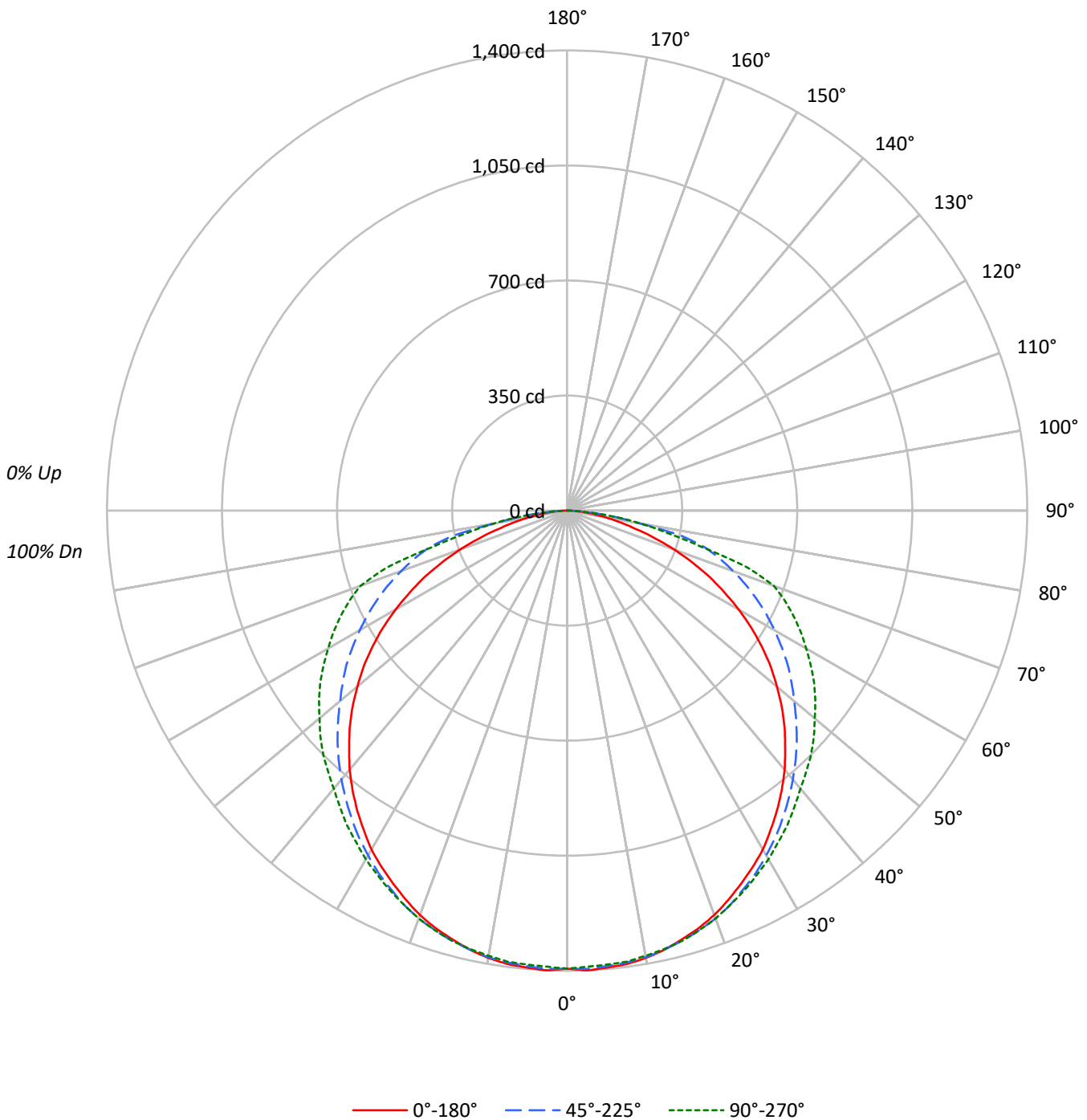
Input Watts (W): 59.055  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1875	1875	1875
5°	1885	1879	1873
10°	1888	1885	1879
15°	1881	1887	1887
20°	1875	1891	1891
25°	1859	1886	1893
30°	1850	1882	1903
35°	1829	1877	1918
40°	1808	1876	1940
45°	1781	1880	1997
50°	1744	1887	2059
55°	1698	1923	2152
60°	1624	1961	2261
65°	1522	2022	2421
70°	1362	2114	2633
75°	1124	2261	2178
80°	917	1746	1764
85°	738	1159	1090



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.3	3.0
10°-20°	381.9	8.7
20°-30°	583.7	13.2
30°-40°	713.8	16.2
40°-50°	763.8	17.3
50°-60°	731.4	16.6
60°-70°	618.7	14.0
70°-80°	392.2	8.9
80°-90°	90.2	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°	1097.9	24.9
0°-40°	1811.7	41.1
0°-60°	3306.9	75.0
0°-90°	4408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4408.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1396	1389	1391	1389	1387	133
15°	1350	1348	1355	1355	1355	381
25°	1252	1252	1270	1275	1275	578
35°	1113	1120	1143	1159	1168	697
45°	936	952	988	1029	1050	721
55°	724	747	820	888	918	646
65°	478	524	635	722	760	471
75°	216	305	435	433	419	235
85°	48	73	75	68	71	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1393.5	1393.5	1393.5	1393.5	1393.5
2.5°	1400.3	1393.5	1395.7	1393.5	1388.9
5°	1395.7	1388.9	1391.2	1388.9	1386.6
7.5°	1391.2	1384.3	1386.6	1384.3	1384.3
10°	1382.1	1375.2	1379.8	1377.5	1375.2
12.5°	1368.4	1363.9	1368.4	1366.1	1366.1
15°	1350.2	1347.9	1354.7	1354.7	1354.7
17.5°	1332.0	1329.7	1338.8	1338.8	1338.8
20°	1309.2	1306.9	1320.6	1320.6	1320.6
22.5°	1281.9	1279.6	1297.8	1297.8	1297.8
25°	1252.3	1252.3	1270.5	1275.1	1275.1
27.5°	1222.7	1222.7	1243.2	1250.0	1250.0
30°	1190.8	1190.8	1211.3	1220.4	1225.0
32.5°	1152.1	1156.7	1179.4	1190.8	1195.4
35°	1113.4	1120.2	1143.0	1158.9	1168.0
37.5°	1072.4	1079.2	1106.6	1124.8	1136.2
40°	1029.2	1038.3	1067.9	1090.6	1104.3
42.5°	981.3	995.0	1029.2	1058.7	1077.0
45°	935.8	951.7	988.2	1029.2	1049.6
47.5°	885.7	903.9	944.9	997.3	1017.8
50°	833.3	851.6	901.6	960.8	983.6
52.5°	781.0	801.5	860.7	924.4	951.7
55°	724.0	746.8	819.7	888.0	917.6
57.5°	664.8	692.2	774.1	847.0	878.9
60°	603.4	637.5	728.6	806.0	840.2
62.5°	539.6	580.6	683.1	765.0	801.5
65°	478.1	523.7	635.2	721.8	760.5
67.5°	412.1	469.0	587.4	680.8	717.2
70°	346.1	412.1	537.3	633.0	669.4
72.5°	280.1	359.7	487.3	573.8	573.8
75°	216.3	305.1	434.9	432.6	418.9
77.5°	163.9	255.0	357.5	305.1	307.4
80°	118.4	204.9	225.4	225.4	227.7
82.5°	79.7	157.1	145.7	143.4	148.0
85°	47.8	72.9	75.1	68.3	70.6
87.5°	22.8	25.0	20.5	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)