

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: P263420

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263420  
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-LD5-65-SQP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3391.0 lumens  
Efficiency: N/A  
Efficacy: 69.5 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

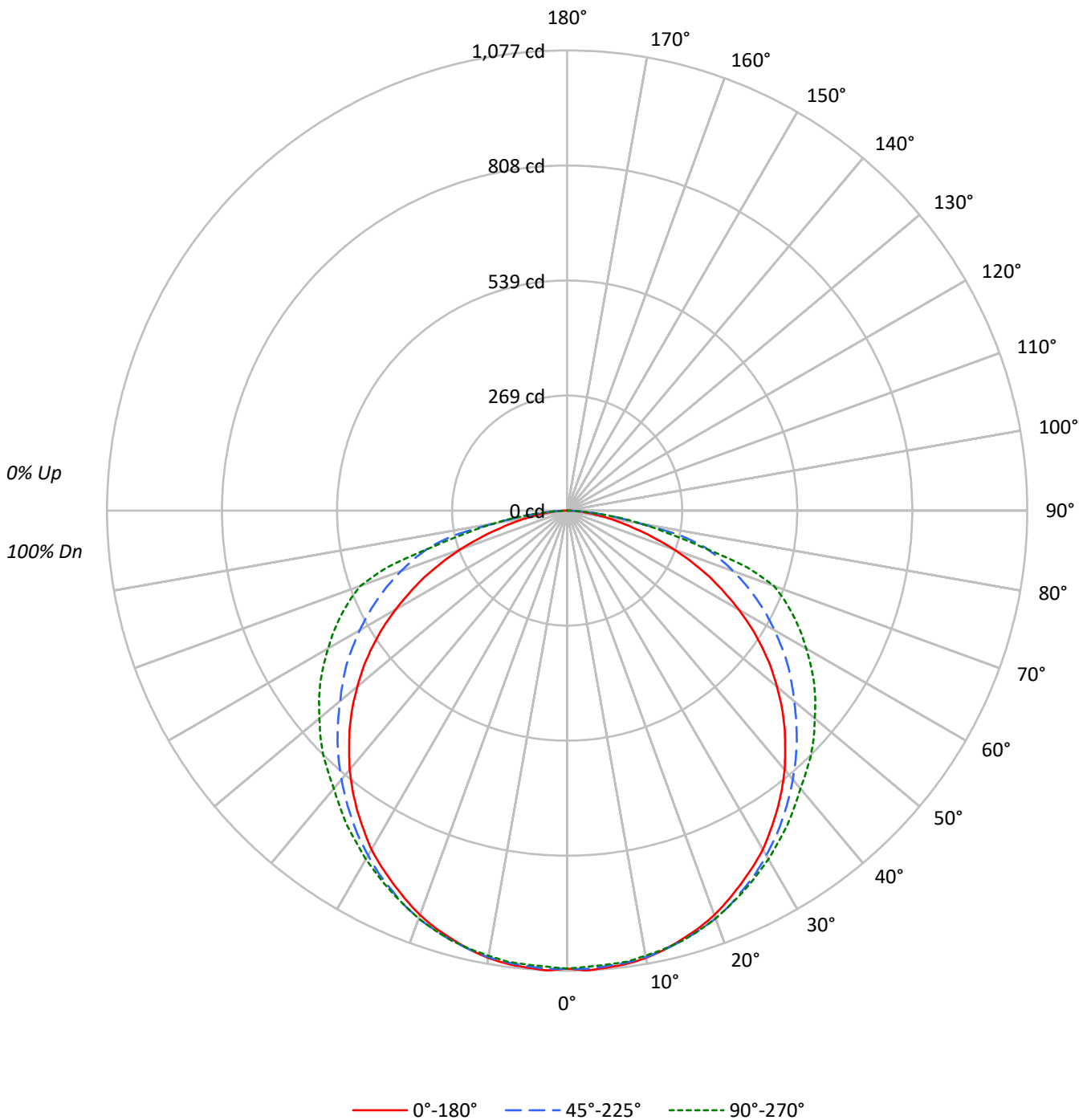
Input Watts (W): 48.825  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1442	1442	1442
5°	1450	1445	1441
10°	1453	1450	1445
15°	1447	1452	1452
20°	1442	1455	1455
25°	1430	1451	1456
30°	1423	1448	1464
35°	1407	1444	1476
40°	1391	1443	1492
45°	1370	1447	1537
50°	1342	1452	1584
55°	1307	1479	1656
60°	1249	1508	1739
65°	1171	1556	1862
70°	1047	1626	2026
75°	865	1739	1675
80°	706	1344	1358
85°	568	892	838



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.8	3.0
10°-20°	293.8	8.7
20°-30°	449.0	13.2
30°-40°	549.1	16.2
40°-50°	587.6	17.3
50°-60°	562.7	16.6
60°-70°	475.9	14.0
70°-80°	301.7	8.9
80°-90°	69.4	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°	844.6	24.9
0°-40°	1393.7	41.1
0°-60°	2544.0	75.0
0°-90°	3391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3391.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1074	1068	1070	1068	1067	102
15°	1039	1037	1042	1042	1042	293
25°	963	963	977	981	981	444
35°	856	862	879	892	899	536
45°	720	732	760	792	808	555
55°	557	574	631	683	706	497
65°	368	403	489	555	585	362
75°	166	235	334	333	322	181
85°	37	56	58	52	54	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1072.0	1072.0	1072.0	1072.0	1072.0
2.5°	1077.2	1072.0	1073.7	1072.0	1068.5
5°	1073.7	1068.5	1070.2	1068.5	1066.7
7.5°	1070.2	1065.0	1066.7	1065.0	1065.0
10°	1063.2	1057.9	1061.4	1059.7	1057.9
12.5°	1052.7	1049.2	1052.7	1050.9	1050.9
15°	1038.7	1036.9	1042.2	1042.2	1042.2
17.5°	1024.7	1022.9	1029.9	1029.9	1029.9
20°	1007.2	1005.4	1015.9	1015.9	1015.9
22.5°	986.1	984.4	998.4	998.4	998.4
25°	963.4	963.4	977.4	980.9	980.9
27.5°	940.6	940.6	956.4	961.6	961.6
30°	916.1	916.1	931.8	938.8	942.3
32.5°	886.3	889.8	907.3	916.1	919.6
35°	856.5	861.8	879.3	891.5	898.6
37.5°	825.0	830.2	851.3	865.3	874.0
40°	791.7	798.7	821.5	839.0	849.5
42.5°	754.9	765.4	791.7	814.5	828.5
45°	719.9	732.2	760.2	791.7	807.5
47.5°	681.4	695.4	726.9	767.2	783.0
50°	641.1	655.1	693.6	739.2	756.7
52.5°	600.8	616.6	662.1	711.1	732.2
55°	557.0	574.5	630.6	683.1	705.9
57.5°	511.5	532.5	595.5	651.6	676.1
60°	464.2	490.4	560.5	620.1	646.3
62.5°	415.1	446.6	525.5	588.5	616.6
65°	367.8	402.9	488.7	555.2	585.0
67.5°	317.0	360.8	451.9	523.7	551.7
70°	266.2	317.0	413.4	486.9	515.0
72.5°	215.4	276.7	374.8	441.4	441.4
75°	166.4	234.7	334.5	332.8	322.3
77.5°	126.1	196.2	275.0	234.7	236.5
80°	91.1	157.6	173.4	173.4	175.2
82.5°	61.3	120.9	112.1	110.3	113.9
85°	36.8	56.1	57.8	52.5	54.3
87.5°	17.5	19.3	15.8	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)