

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: P263258

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263258  
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-LD5-50-SQP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3053.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 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

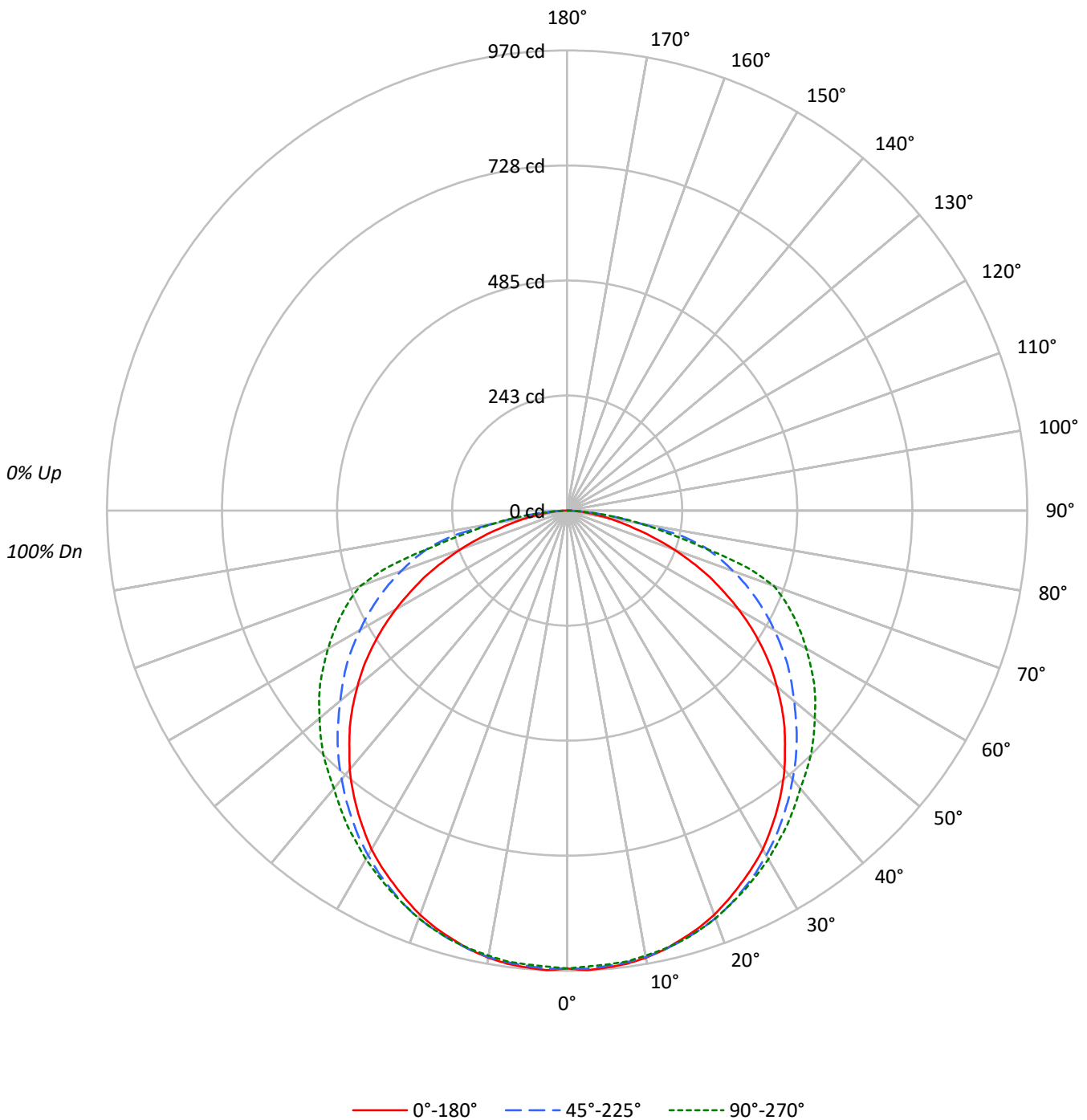
Input Watts (W): 35.712  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1299	1299	1299
5°	1306	1301	1297
10°	1308	1306	1301
15°	1303	1307	1307
20°	1298	1310	1310
25°	1288	1306	1311
30°	1281	1304	1318
35°	1267	1300	1329
40°	1252	1299	1343
45°	1233	1302	1383
50°	1208	1307	1426
55°	1176	1332	1491
60°	1125	1358	1566
65°	1054	1401	1677
70°	943	1464	1824
75°	779	1566	1509
80°	635	1210	1222
85°	511	803	755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	3.0
10°-20°	264.5	8.7
20°-30°	404.2	13.2
30°-40°	494.4	16.2
40°-50°	529.0	17.3
50°-60°	506.6	16.6
60°-70°	428.5	14.0
70°-80°	271.6	8.9
80°-90°	62.5	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°	760.4	24.9
0°-40°	1254.8	41.1
0°-60°	2290.4	75.0
0°-90°	3053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3053.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	967	962	964	962	960	92
15°	935	934	938	938	938	264
25°	867	867	880	883	883	400
35°	771	776	792	803	809	482
45°	648	659	684	713	727	499
55°	502	517	568	615	636	447
65°	331	363	440	500	527	326
75°	150	211	301	300	290	163
85°	33	50	52	47	49	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	965.1	965.1	965.1	965.1	965.1
2.5°	969.8	965.1	966.7	965.1	962.0
5°	966.7	962.0	963.5	962.0	960.4
7.5°	963.5	958.8	960.4	958.8	958.8
10°	957.2	952.5	955.6	954.1	952.5
12.5°	947.8	944.6	947.8	946.2	946.2
15°	935.1	933.6	938.3	938.3	938.3
17.5°	922.5	921.0	927.3	927.3	927.3
20°	906.8	905.2	914.6	914.6	914.6
22.5°	887.8	886.3	898.9	898.9	898.9
25°	867.3	867.3	880.0	883.1	883.1
27.5°	846.8	846.8	861.0	865.8	865.8
30°	824.8	824.8	839.0	845.3	848.4
32.5°	798.0	801.1	816.9	824.8	827.9
35°	771.1	775.9	791.6	802.7	809.0
37.5°	742.8	747.5	766.4	779.0	786.9
40°	712.8	719.1	739.6	755.4	764.8
42.5°	679.7	689.1	712.8	733.3	745.9
45°	648.1	659.2	684.4	712.8	727.0
47.5°	613.4	626.1	654.4	690.7	704.9
50°	577.2	589.8	624.5	665.5	681.3
52.5°	540.9	555.1	596.1	640.3	659.2
55°	501.5	517.2	567.7	615.0	635.5
57.5°	460.5	479.4	536.2	586.6	608.7
60°	417.9	441.6	504.6	558.3	581.9
62.5°	373.7	402.1	473.1	529.9	555.1
65°	331.2	362.7	440.0	499.9	526.7
67.5°	285.4	324.9	406.9	471.5	496.7
70°	239.7	285.4	372.2	438.4	463.6
72.5°	194.0	249.2	337.5	397.4	397.4
75°	149.8	211.3	301.2	299.6	290.2
77.5°	113.5	176.6	247.6	211.3	212.9
80°	82.0	141.9	156.1	156.1	157.7
82.5°	55.2	108.8	100.9	99.3	102.5
85°	33.1	50.5	52.0	47.3	48.9
87.5°	15.8	17.3	14.2	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)