

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: P263174

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263174  
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-LD5-55-SQP-UNV-L93050-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: 3372.8 lumens  
Efficiency: N/A  
Efficacy: 82.0 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

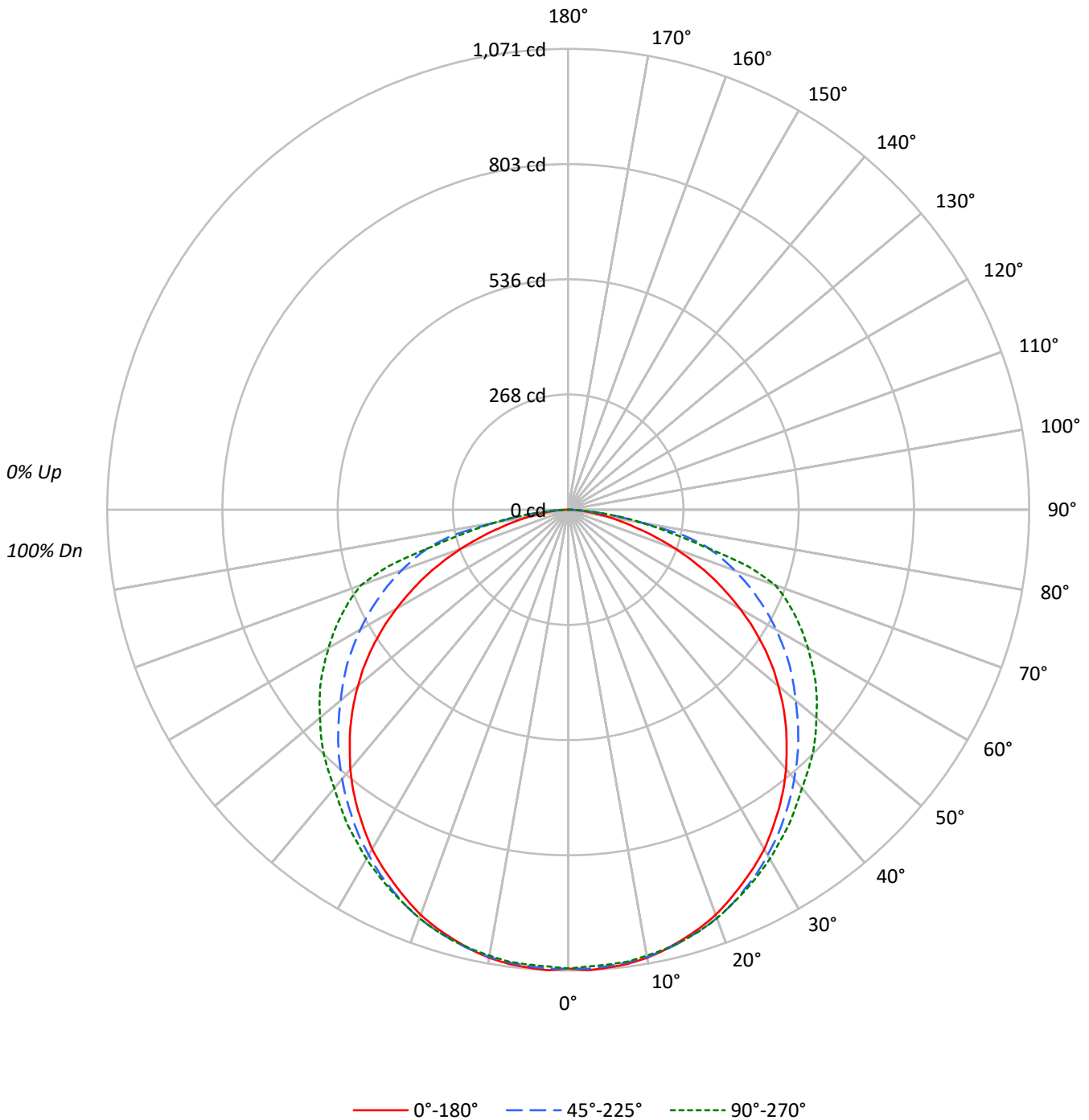
Input Watts (W): 41.125158  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1435	1435	1435
5°	1442	1438	1433
10°	1445	1442	1438
15°	1439	1444	1444
20°	1434	1447	1447
25°	1423	1443	1448
30°	1416	1440	1456
35°	1399	1437	1468
40°	1383	1435	1484
45°	1362	1439	1528
50°	1335	1444	1575
55°	1300	1471	1647
60°	1242	1500	1730
65°	1165	1548	1853
70°	1042	1618	2015
75°	860	1730	1667
80°	702	1337	1350
85°	565	888	834



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	3.0
10°-20°	292.2	8.7
20°-30°	446.6	13.2
30°-40°	546.2	16.2
40°-50°	584.4	17.3
50°-60°	559.6	16.6
60°-70°	473.4	14.0
70°-80°	300.1	8.9
80°-90°	69.0	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°	840.0	24.9
0°-40°	1386.2	41.1
0°-60°	2530.3	75.0
0°-90°	3372.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1068	1063	1064	1063	1061	102
15°	1033	1031	1037	1037	1037	292
25°	958	958	972	976	976	442
35°	852	857	875	887	894	533
45°	716	728	756	788	803	552
55°	554	571	627	679	702	494
65°	366	401	486	552	582	360
75°	166	234	333	331	321	180
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°	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1071.4	1066.2	1068.0	1066.2	1062.7
5°	1068.0	1062.7	1064.5	1062.7	1061.0
7.5°	1064.5	1059.2	1061.0	1059.2	1059.2
10°	1057.5	1052.3	1055.8	1054.0	1052.3
12.5°	1047.0	1043.6	1047.0	1045.3	1045.3
15°	1033.1	1031.4	1036.6	1036.6	1036.6
17.5°	1019.2	1017.4	1024.4	1024.4	1024.4
20°	1001.8	1000.0	1010.5	1010.5	1010.5
22.5°	980.8	979.1	993.0	993.0	993.0
25°	958.2	958.2	972.1	975.6	975.6
27.5°	935.5	935.5	951.2	956.5	956.5
30°	911.2	911.2	926.8	933.8	937.3
32.5°	881.5	885.0	902.4	911.2	914.6
35°	851.9	857.2	874.6	886.8	893.7
37.5°	820.6	825.8	846.7	860.6	869.3
40°	787.5	794.4	817.1	834.5	845.0
42.5°	750.9	761.3	787.5	810.1	824.1
45°	716.0	728.2	756.1	787.5	803.1
47.5°	677.7	691.6	723.0	763.1	778.8
50°	637.6	651.6	689.9	735.2	752.6
52.5°	597.6	613.2	658.5	707.3	728.2
55°	554.0	571.4	627.2	679.4	702.1
57.5°	508.7	529.6	592.3	648.1	672.5
60°	461.7	487.8	557.5	616.7	642.9
62.5°	412.9	444.3	522.7	585.4	613.2
65°	365.9	400.7	486.1	552.3	581.9
67.5°	315.3	358.9	449.5	520.9	548.8
70°	264.8	315.3	411.2	484.3	512.2
72.5°	214.3	275.3	372.8	439.0	439.0
75°	165.5	233.5	332.8	331.0	320.6
77.5°	125.4	195.1	273.5	233.5	235.2
80°	90.6	156.8	172.5	172.5	174.2
82.5°	61.0	120.2	111.5	109.8	113.2
85°	36.6	55.7	57.5	52.3	54.0
87.5°	17.4	19.2	15.7	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)