

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: P263383

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263383  
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-LD5-40-SQP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2559.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

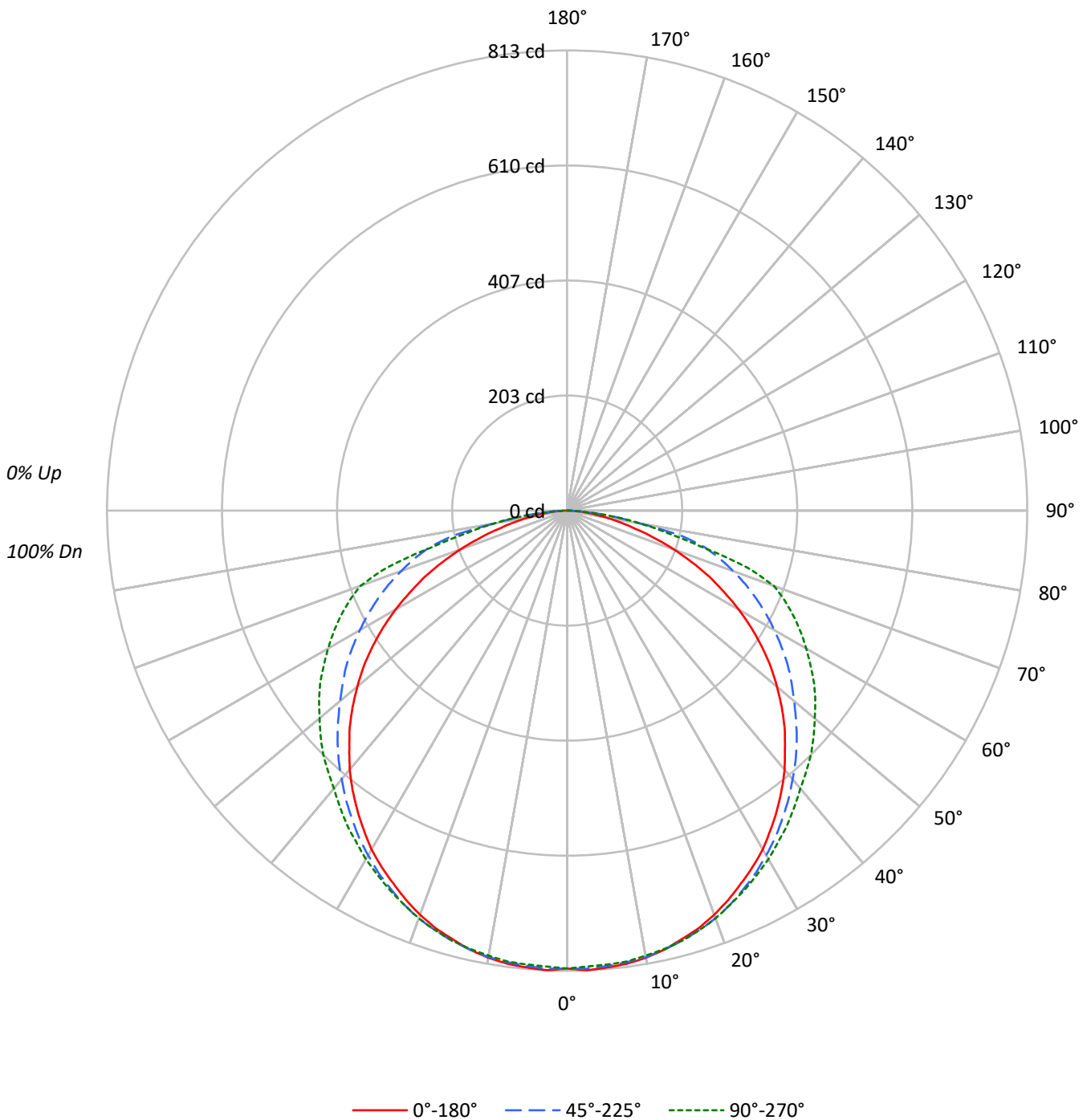
Input Watts (W): 29.574  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1088	1088	1088
5°	1094	1091	1087
10°	1096	1094	1091
15°	1092	1096	1096
20°	1088	1098	1098
25°	1079	1095	1099
30°	1074	1093	1105
35°	1062	1090	1114
40°	1049	1089	1126
45°	1034	1092	1160
50°	1013	1096	1195
55°	986	1116	1250
60°	943	1138	1312
65°	884	1174	1406
70°	790	1227	1529
75°	653	1313	1264
80°	532	1014	1024
85°	429	673	633



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.8	3.0
10°-20°	221.7	8.7
20°-30°	338.8	13.2
30°-40°	414.4	16.2
40°-50°	443.4	17.3
50°-60°	424.6	16.6
60°-70°	359.2	14.0
70°-80°	227.7	8.9
80°-90°	52.4	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°	637.4	24.9
0°-40°	1051.8	41.1
0°-60°	1919.8	75.0
0°-90°	2559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	810	806	808	806	805	77
15°	784	782	786	786	786	221
25°	727	727	738	740	740	335
35°	646	650	664	673	678	404
45°	543	552	574	598	609	419
55°	420	434	476	516	533	375
65°	278	304	369	419	442	273
75°	126	177	252	251	243	137
85°	28	42	44	40	41	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	808.9	808.9	808.9	808.9	808.9
2.5°	812.9	808.9	810.3	808.9	806.3
5°	810.3	806.3	807.6	806.3	805.0
7.5°	807.6	803.7	805.0	803.7	803.7
10°	802.3	798.4	801.0	799.7	798.4
12.5°	794.4	791.8	794.4	793.1	793.1
15°	783.8	782.5	786.5	786.5	786.5
17.5°	773.3	771.9	777.2	777.2	777.2
20°	760.0	758.7	766.6	766.6	766.6
22.5°	744.2	742.9	753.4	753.4	753.4
25°	727.0	727.0	737.6	740.2	740.2
27.5°	709.8	709.8	721.7	725.7	725.7
30°	691.3	691.3	703.2	708.5	711.1
32.5°	668.8	671.5	684.7	691.3	694.0
35°	646.4	650.3	663.5	672.8	678.1
37.5°	622.6	626.5	642.4	653.0	659.6
40°	597.5	602.7	619.9	633.1	641.1
42.5°	569.7	577.6	597.5	614.6	625.2
45°	543.3	552.5	573.7	597.5	609.4
47.5°	514.2	524.8	548.6	579.0	590.8
50°	483.8	494.4	523.4	557.8	571.0
52.5°	453.4	465.3	499.6	536.7	552.5
55°	420.3	433.6	475.9	515.5	532.7
57.5°	386.0	401.8	449.4	491.7	510.2
60°	350.3	370.1	423.0	467.9	487.7
62.5°	313.3	337.1	396.5	444.1	465.3
65°	277.6	304.0	368.8	419.0	441.5
67.5°	239.2	272.3	341.0	395.2	416.4
70°	200.9	239.2	311.9	367.5	388.6
72.5°	162.6	208.8	282.9	333.1	333.1
75°	125.6	177.1	252.5	251.1	243.2
77.5°	95.2	148.0	207.5	177.1	178.4
80°	68.7	119.0	130.9	130.9	132.2
82.5°	46.3	91.2	84.6	83.3	85.9
85°	27.8	42.3	43.6	39.7	41.0
87.5°	13.2	14.5	11.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)