

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: P263173

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263173  
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-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3123.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 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

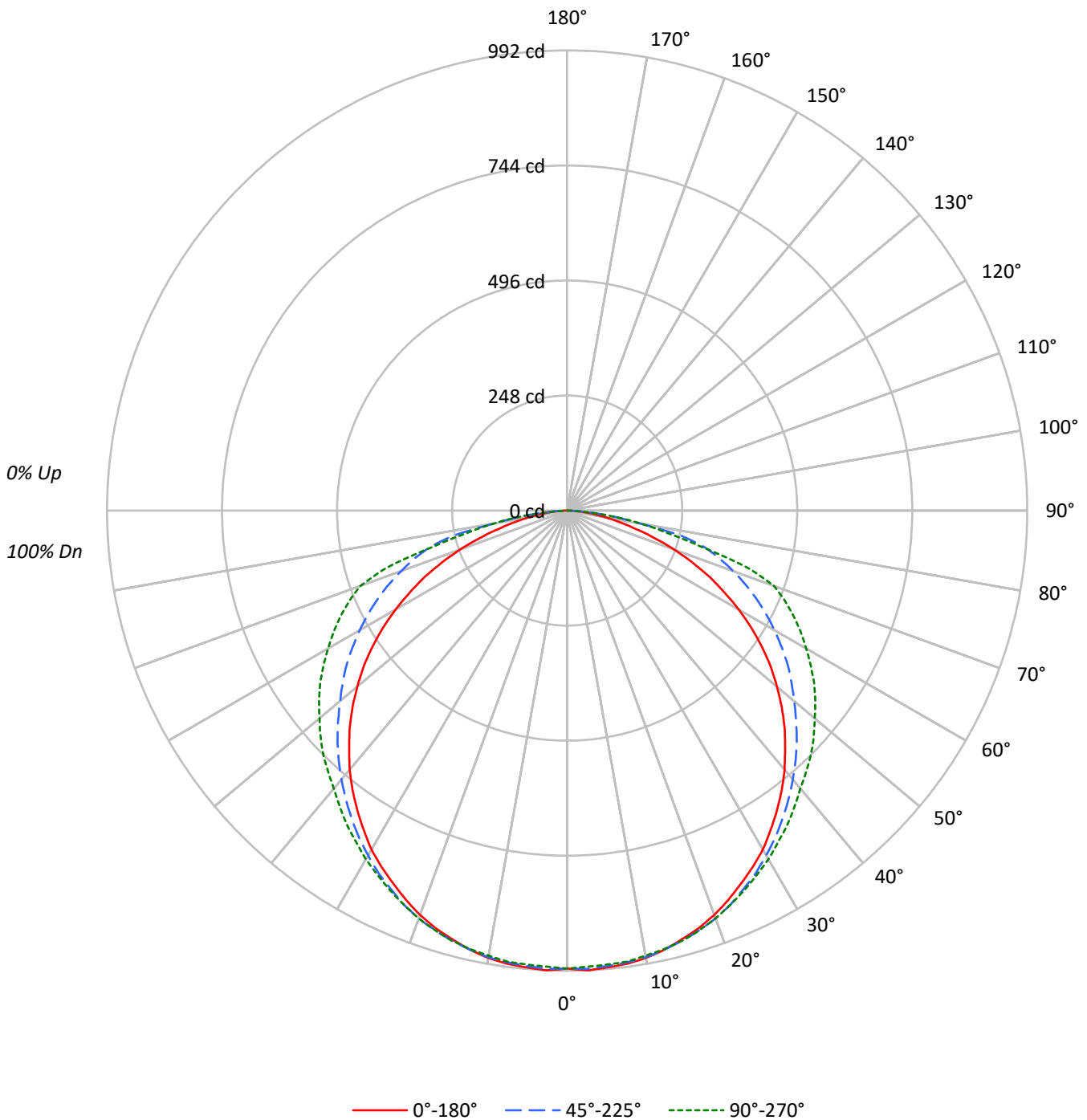
Input Watts (W): 40.844577  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1328	1328	1328
5°	1336	1331	1327
10°	1338	1336	1331
15°	1332	1337	1337
20°	1328	1340	1340
25°	1317	1336	1341
30°	1311	1333	1348
35°	1296	1330	1359
40°	1281	1329	1374
45°	1262	1332	1415
50°	1236	1337	1459
55°	1203	1362	1525
60°	1150	1389	1602
65°	1079	1433	1715
70°	965	1498	1866
75°	796	1602	1543
80°	650	1237	1250
85°	523	821	772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.8	3.0
10°-20°	270.6	8.7
20°-30°	413.5	13.2
30°-40°	505.7	16.2
40°-50°	541.1	17.3
50°-60°	518.2	16.6
60°-70°	438.3	14.0
70°-80°	277.9	8.9
80°-90°	63.9	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°	777.8	24.9
0°-40°	1283.6	41.1
0°-60°	2342.9	75.0
0°-90°	3123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	989	984	986	984	982	94
15°	957	955	960	960	960	270
25°	887	887	900	903	903	409
35°	789	794	810	821	828	494
45°	663	674	700	729	744	511
55°	513	529	581	629	650	458
65°	339	371	450	511	539	334
75°	153	216	308	306	297	167
85°	34	52	53	48	50	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	987.2	987.2	987.2	987.2	987.2
2.5°	992.1	987.2	988.8	987.2	984.0
5°	988.8	984.0	985.6	984.0	982.4
7.5°	985.6	980.8	982.4	980.8	980.8
10°	979.2	974.3	977.6	975.9	974.3
12.5°	969.5	966.3	969.5	967.9	967.9
15°	956.6	955.0	959.8	959.8	959.8
17.5°	943.7	942.1	948.5	948.5	948.5
20°	927.5	925.9	935.6	935.6	935.6
22.5°	908.2	906.6	919.5	919.5	919.5
25°	887.2	887.2	900.1	903.4	903.4
27.5°	866.2	866.2	880.8	885.6	885.6
30°	843.7	843.7	858.2	864.6	867.9
32.5°	816.2	819.5	835.6	843.7	846.9
35°	788.8	793.7	809.8	821.1	827.5
37.5°	759.8	764.6	784.0	796.9	805.0
40°	729.1	735.6	756.6	772.7	782.4
42.5°	695.3	704.9	729.1	750.1	763.0
45°	663.0	674.3	700.1	729.1	743.7
47.5°	627.5	640.4	669.4	706.5	721.1
50°	590.4	603.3	638.8	680.7	696.9
52.5°	553.3	567.8	609.8	654.9	674.3
55°	513.0	529.1	580.7	629.1	650.1
57.5°	471.0	490.4	548.5	600.1	622.7
60°	427.5	451.7	516.2	571.0	595.2
62.5°	382.3	411.3	483.9	542.0	567.8
65°	338.8	371.0	450.1	511.4	538.8
67.5°	292.0	332.3	416.2	482.3	508.1
70°	245.2	292.0	380.7	448.4	474.3
72.5°	198.4	254.9	345.2	406.5	406.5
75°	153.2	216.2	308.1	306.5	296.8
77.5°	116.1	180.7	253.3	216.2	217.8
80°	83.9	145.2	159.7	159.7	161.3
82.5°	56.5	111.3	103.2	101.6	104.9
85°	33.9	51.6	53.2	48.4	50.0
87.5°	16.1	17.7	14.5	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)