

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: P263172

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263172  
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-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2858.5 lumens  
Efficiency: N/A  
Efficacy: 69.7 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

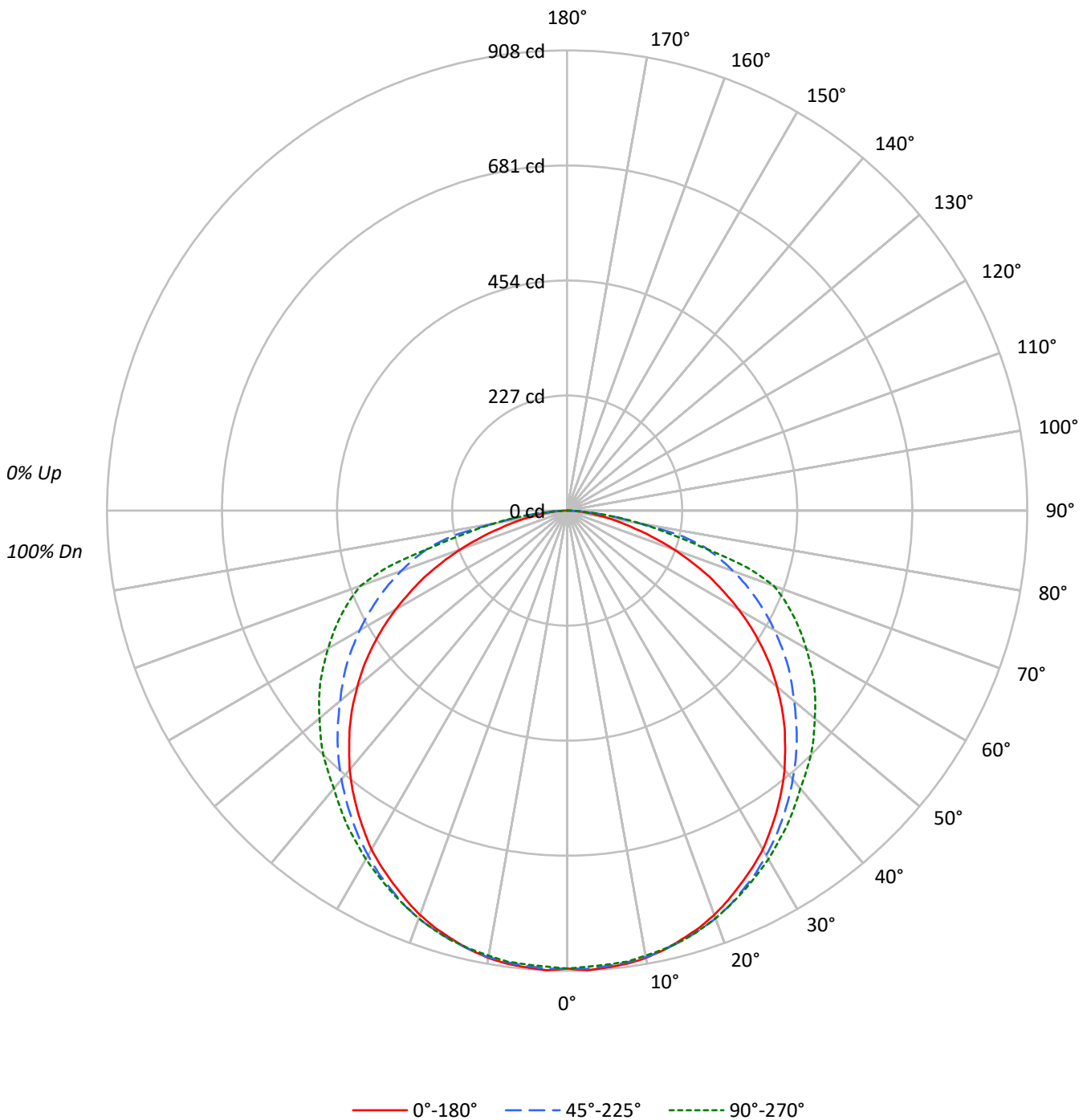
Input Watts (W): 41.004909  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1216	1216	1216
5°	1222	1218	1214
10°	1224	1223	1218
15°	1220	1224	1224
20°	1216	1226	1226
25°	1206	1223	1227
30°	1200	1220	1234
35°	1186	1217	1244
40°	1172	1216	1258
45°	1155	1219	1295
50°	1131	1224	1335
55°	1101	1247	1396
60°	1053	1271	1466
65°	987	1311	1570
70°	883	1371	1708
75°	729	1466	1412
80°	595	1133	1144
85°	479	752	707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.8	3.0
10°-20°	247.6	8.7
20°-30°	378.5	13.2
30°-40°	462.9	16.2
40°-50°	495.3	17.3
50°-60°	474.3	16.6
60°-70°	401.2	14.0
70°-80°	254.3	8.9
80°-90°	58.5	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°	711.9	24.9
0°-40°	1174.8	41.1
0°-60°	2144.4	75.0
0°-90°	2858.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2858.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	905	901	902	901	899	86
15°	876	874	878	878	878	247
25°	812	812	824	827	827	375
35°	722	726	741	752	757	452
45°	607	617	641	667	681	468
55°	470	484	532	576	595	419
65°	310	340	412	468	493	305
75°	140	198	282	280	272	153
85°	31	47	49	44	46	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	903.6	903.6	903.6	903.6	903.6
2.5°	908.0	903.6	905.1	903.6	900.7
5°	905.1	900.7	902.1	900.7	899.2
7.5°	902.1	897.7	899.2	897.7	897.7
10°	896.2	891.8	894.8	893.3	891.8
12.5°	887.4	884.4	887.4	885.9	885.9
15°	875.6	874.1	878.5	878.5	878.5
17.5°	863.7	862.3	868.2	868.2	868.2
20°	849.0	847.5	856.4	856.4	856.4
22.5°	831.3	829.8	841.6	841.6	841.6
25°	812.1	812.1	823.9	826.8	826.8
27.5°	792.9	792.9	806.2	810.6	810.6
30°	772.2	772.2	785.5	791.4	794.3
32.5°	747.1	750.1	764.8	772.2	775.2
35°	722.0	726.4	741.2	751.5	757.4
37.5°	695.4	699.9	717.6	729.4	736.8
40°	667.4	673.3	692.5	707.2	716.1
42.5°	636.4	645.2	667.4	686.6	698.4
45°	606.8	617.2	640.8	667.4	680.7
47.5°	574.4	586.2	612.7	646.7	660.0
50°	540.4	552.2	584.7	623.1	637.8
52.5°	506.4	519.7	558.1	599.5	617.2
55°	469.5	484.3	531.5	575.8	595.0
57.5°	431.1	448.9	502.0	549.3	569.9
60°	391.3	413.4	472.5	522.7	544.8
62.5°	349.9	376.5	442.9	496.1	519.7
65°	310.1	339.6	411.9	468.0	493.1
67.5°	267.2	304.2	380.9	441.5	465.1
70°	224.4	267.2	348.5	410.5	434.1
72.5°	181.6	233.3	316.0	372.1	372.1
75°	140.3	197.8	282.0	280.5	271.7
77.5°	106.3	165.4	231.8	197.8	199.3
80°	76.8	132.9	146.2	146.2	147.6
82.5°	51.7	101.9	94.5	93.0	96.0
85°	31.0	47.2	48.7	44.3	45.8
87.5°	14.8	16.2	13.3	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)