

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: P263348

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263348  
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-LD5-50SE-SQP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3039.0 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

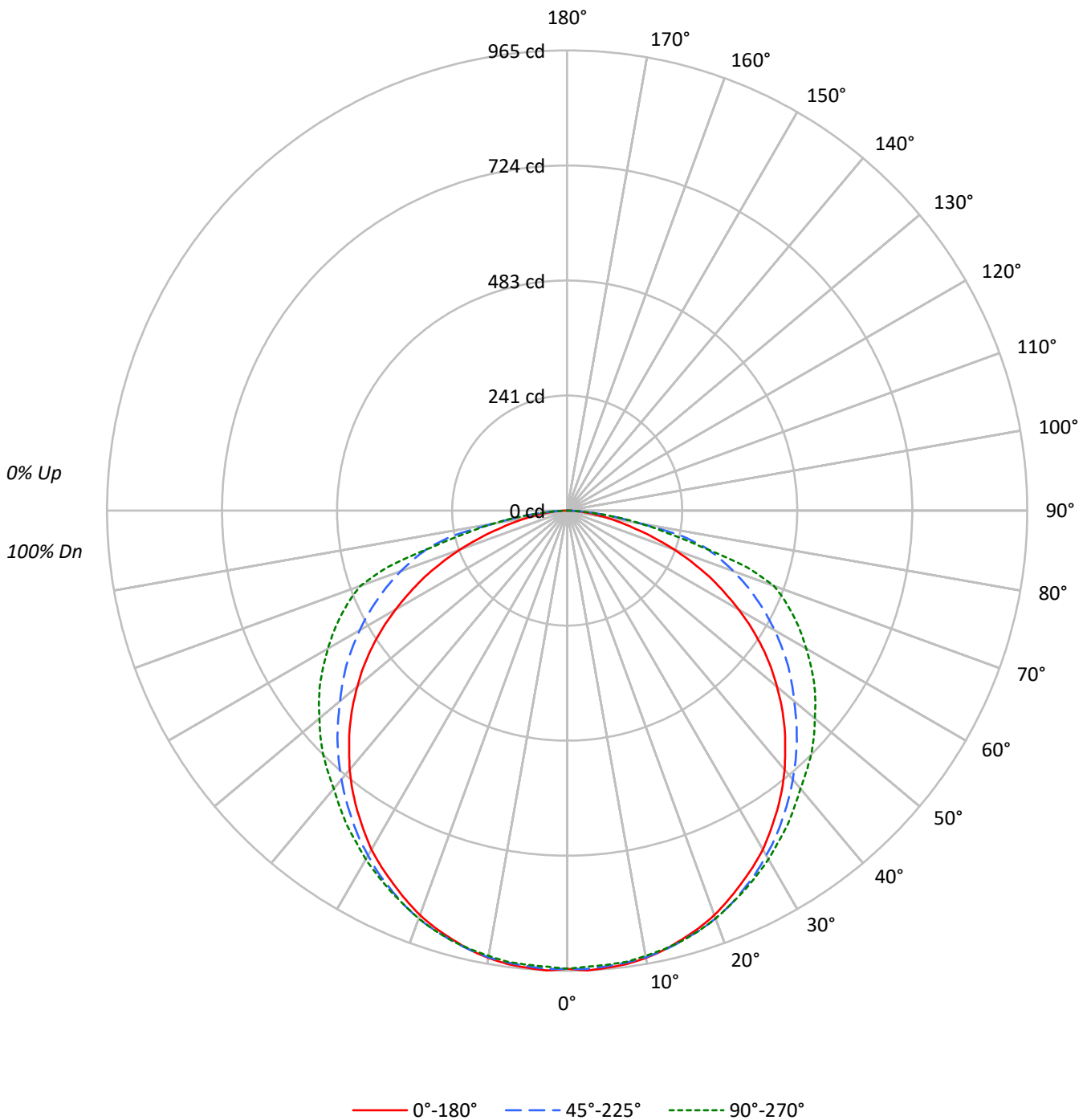
Input Watts (W): 39.711  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1293	1293	1293
5°	1300	1295	1291
10°	1302	1300	1295
15°	1297	1301	1301
20°	1292	1304	1304
25°	1282	1300	1305
30°	1276	1297	1312
35°	1261	1294	1323
40°	1246	1293	1337
45°	1228	1296	1377
50°	1203	1301	1419
55°	1171	1326	1484
60°	1119	1352	1559
65°	1049	1394	1669
70°	939	1458	1816
75°	775	1559	1501
80°	632	1204	1216
85°	509	800	752



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	3.0
10°-20°	263.3	8.7
20°-30°	402.4	13.2
30°-40°	492.1	16.2
40°-50°	526.6	17.3
50°-60°	504.2	16.6
60°-70°	426.6	14.0
70°-80°	270.4	8.9
80°-90°	62.2	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°	756.9	24.9
0°-40°	1249.1	41.1
0°-60°	2279.9	75.0
0°-90°	3039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	962	958	959	958	956	92
15°	931	929	934	934	934	263
25°	863	863	876	879	879	398
35°	768	772	788	799	805	480
45°	645	656	681	710	724	497
55°	499	515	565	612	633	445
65°	330	361	438	498	524	325
75°	149	210	300	298	289	162
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°	960.7	960.7	960.7	960.7	960.7
2.5°	965.4	960.7	962.3	960.7	957.5
5°	962.3	957.5	959.1	957.5	956.0
7.5°	959.1	954.4	956.0	954.4	954.4
10°	952.8	948.1	951.3	949.7	948.1
12.5°	943.4	940.3	943.4	941.8	941.8
15°	930.9	929.3	934.0	934.0	934.0
17.5°	918.3	916.7	923.0	923.0	923.0
20°	902.6	901.0	910.5	910.5	910.5
22.5°	883.8	882.2	894.8	894.8	894.8
25°	863.4	863.4	875.9	879.1	879.1
27.5°	843.0	843.0	857.1	861.8	861.8
30°	821.0	821.0	835.1	841.4	844.5
32.5°	794.3	797.4	813.1	821.0	824.1
35°	767.6	772.3	788.0	799.0	805.3
37.5°	739.4	744.1	762.9	775.5	783.3
40°	709.5	715.8	736.2	751.9	761.3
42.5°	676.6	686.0	709.5	729.9	742.5
45°	645.2	656.2	681.3	709.5	723.7
47.5°	610.6	623.2	651.4	687.5	701.7
50°	574.5	587.1	621.6	662.4	678.1
52.5°	538.4	552.6	593.4	637.3	656.2
55°	499.2	514.9	565.1	612.2	632.6
57.5°	458.4	477.2	533.7	583.9	605.9
60°	416.0	439.5	502.3	555.7	579.2
62.5°	372.0	400.3	470.9	527.4	552.6
65°	329.6	361.0	438.0	497.6	524.3
67.5°	284.1	323.4	405.0	469.4	494.5
70°	238.6	284.1	370.5	436.4	461.5
72.5°	193.1	248.0	335.9	395.6	395.6
75°	149.1	210.3	299.8	298.3	288.8
77.5°	113.0	175.8	246.5	210.3	211.9
80°	81.6	141.3	155.4	155.4	157.0
82.5°	54.9	108.3	100.5	98.9	102.0
85°	33.0	50.2	51.8	47.1	48.7
87.5°	15.7	17.3	14.1	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)