

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: P263142

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263142
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-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3129.0 lumens
Efficiency: N/A
Efficacy: 79.0 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

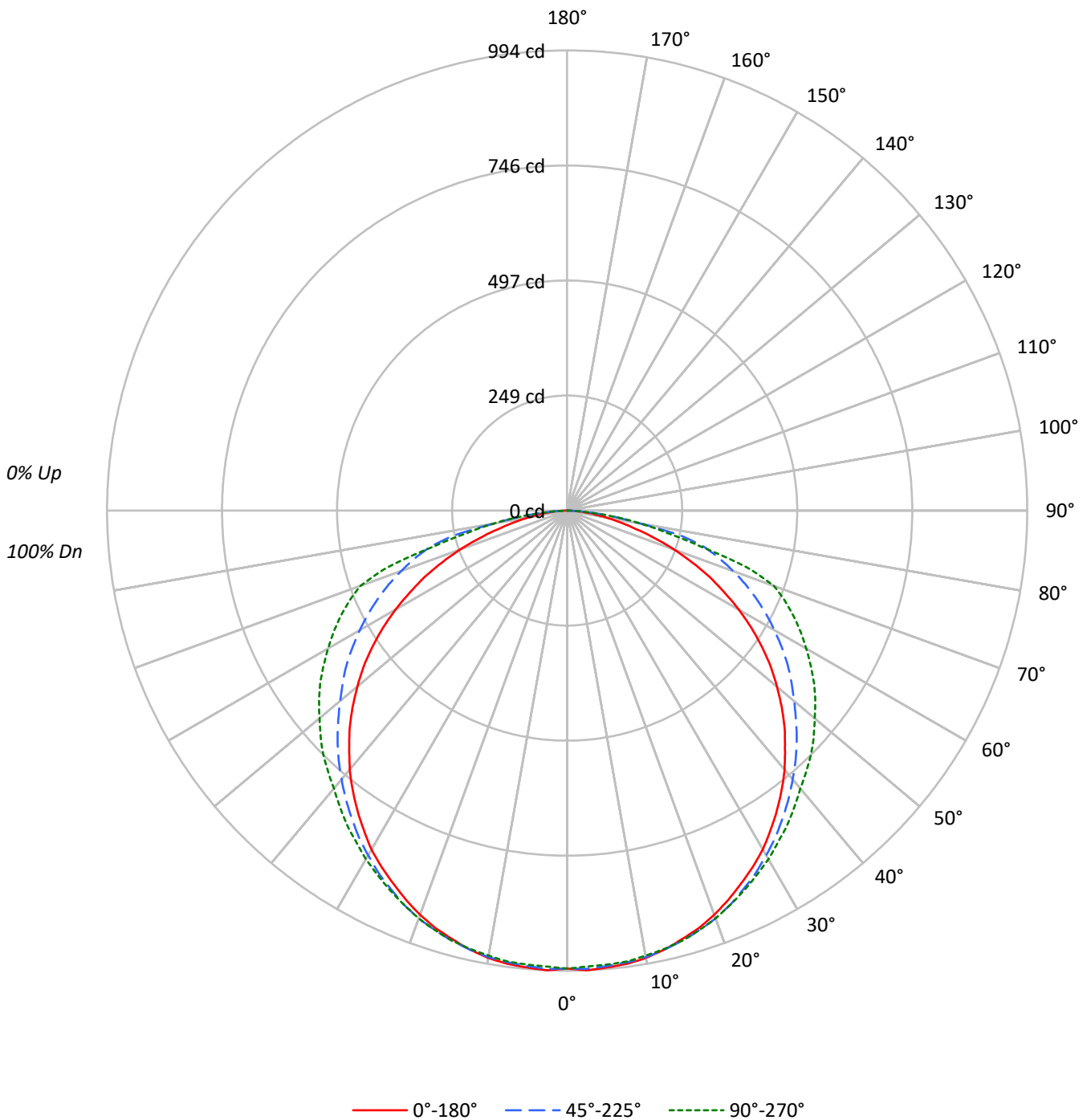
Input Watts (W): 39.631578
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1331	1331	1331
5°	1338	1334	1329
10°	1340	1338	1334
15°	1335	1340	1340
20°	1331	1342	1342
25°	1320	1339	1344
30°	1313	1336	1351
35°	1298	1333	1362
40°	1283	1331	1377
45°	1264	1335	1418
50°	1238	1340	1461
55°	1206	1365	1528
60°	1153	1392	1605
65°	1081	1436	1719
70°	967	1500	1869
75°	798	1605	1546
80°	651	1240	1252
85°	523	823	773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.0
10°-20°	271.1	8.7
20°-30°	414.3	13.2
30°-40°	506.7	16.2
40°-50°	542.2	17.3
50°-60°	519.2	16.6
60°-70°	439.2	14.0
70°-80°	278.4	8.9
80°-90°	64.0	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°	779.3	24.9
0°-40°	1286.0	41.1
0°-60°	2347.4	75.0
0°-90°	3129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	991	986	988	986	984	94
15°	958	957	962	962	962	271
25°	889	889	902	905	905	410
35°	790	795	811	823	829	494
45°	664	676	701	730	745	512
55°	514	530	582	630	651	458
65°	339	372	451	512	540	334
75°	154	217	309	307	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°	989.1	989.1	989.1	989.1	989.1
2.5°	994.0	989.1	990.8	989.1	985.9
5°	990.8	985.9	987.5	985.9	984.3
7.5°	987.5	982.7	984.3	982.7	982.7
10°	981.1	976.2	979.4	977.8	976.2
12.5°	971.4	968.1	971.4	969.7	969.7
15°	958.4	956.8	961.7	961.7	961.7
17.5°	945.5	943.9	950.3	950.3	950.3
20°	929.3	927.7	937.4	937.4	937.4
22.5°	909.9	908.3	921.3	921.3	921.3
25°	888.9	888.9	901.9	905.1	905.1
27.5°	867.9	867.9	882.5	887.3	887.3
30°	845.3	845.3	859.8	866.3	869.5
32.5°	817.8	821.0	837.2	845.3	848.5
35°	790.3	795.2	811.3	822.7	829.1
37.5°	761.2	766.1	785.5	798.4	806.5
40°	730.5	737.0	758.0	774.2	783.9
42.5°	696.6	706.3	730.5	751.5	764.5
45°	664.3	675.6	701.4	730.5	745.1
47.5°	628.7	641.6	670.7	707.9	722.5
50°	591.5	604.5	640.0	682.1	698.2
52.5°	554.4	568.9	610.9	656.2	675.6
55°	514.0	530.1	581.8	630.3	651.3
57.5°	471.9	491.3	549.5	601.2	623.9
60°	428.3	452.5	517.2	572.1	596.4
62.5°	383.0	412.1	484.9	543.1	568.9
65°	339.4	371.7	450.9	512.3	539.8
67.5°	292.5	332.9	417.0	483.3	509.1
70°	245.7	292.5	381.4	449.3	475.2
72.5°	198.8	255.4	345.9	407.3	407.3
75°	153.5	216.6	308.7	307.1	297.4
77.5°	116.4	181.0	253.7	216.6	218.2
80°	84.0	145.5	160.0	160.0	161.6
82.5°	56.6	111.5	103.4	101.8	105.1
85°	33.9	51.7	53.3	48.5	50.1
87.5°	16.2	17.8	14.5	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)