

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: P263355

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263355
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3452.0 lumens
Efficiency: N/A
Efficacy: 84.6 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

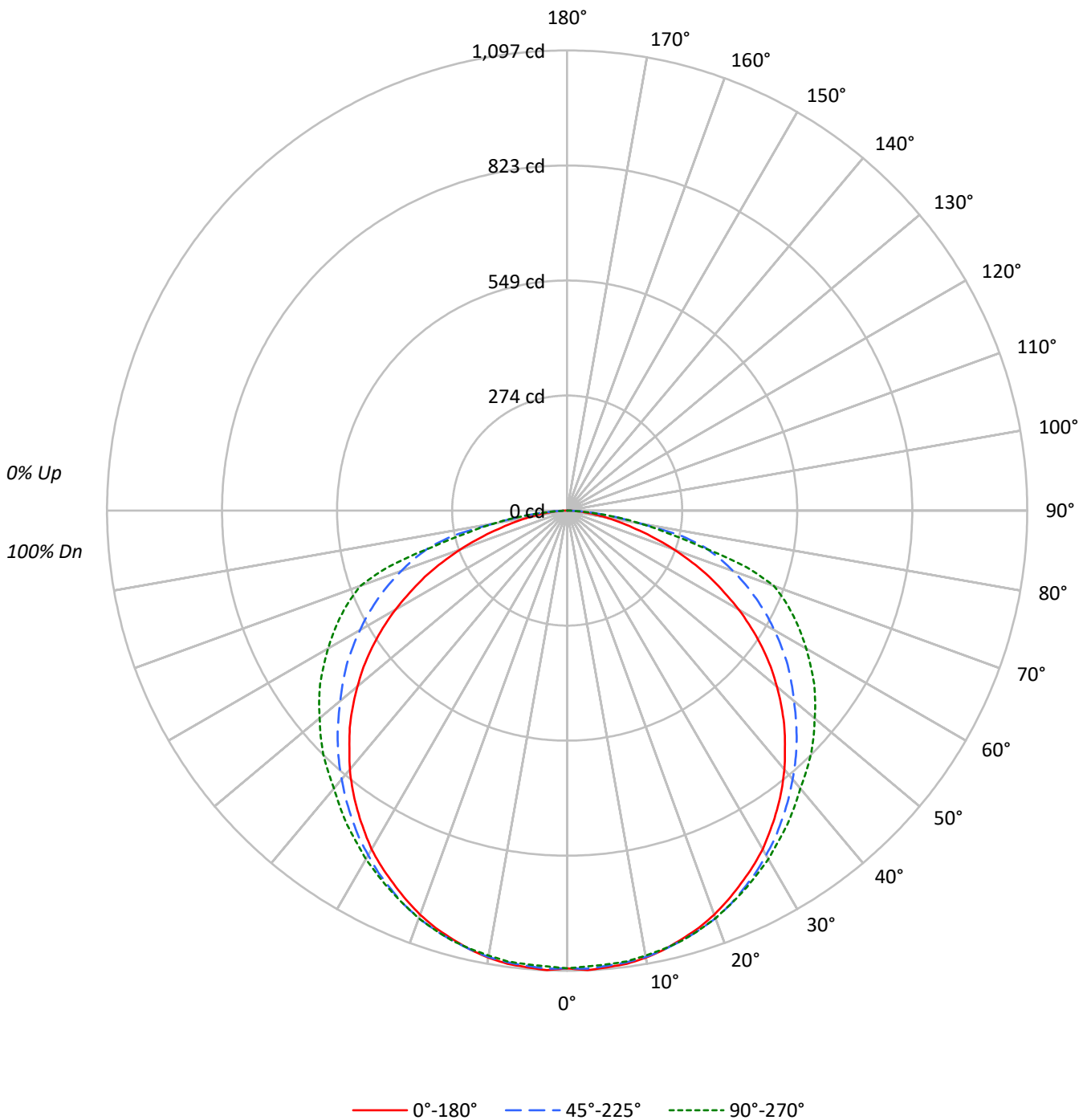
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1468	1468	1468
5°	1476	1472	1467
10°	1479	1476	1471
15°	1473	1478	1478
20°	1468	1481	1481
25°	1456	1477	1482
30°	1449	1474	1490
35°	1432	1470	1502
40°	1415	1469	1519
45°	1394	1473	1564
50°	1366	1478	1612
55°	1330	1506	1686
60°	1271	1535	1771
65°	1192	1584	1896
70°	1066	1655	2062
75°	881	1771	1706
80°	718	1368	1382
85°	577	908	854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.0
10°-20°	299.1	8.7
20°-30°	457.1	13.2
30°-40°	559.0	16.2
40°-50°	598.1	17.3
50°-60°	572.8	16.6
60°-70°	484.5	14.0
70°-80°	307.1	8.9
80°-90°	70.6	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°	859.8	24.9
0°-40°	1418.8	41.1
0°-60°	2589.7	75.0
0°-90°	3452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1093	1088	1090	1088	1086	104
15°	1057	1056	1061	1061	1061	299
25°	981	981	995	998	998	452
35°	872	877	895	908	915	545
45°	733	745	774	806	822	565
55°	567	585	642	695	719	506
65°	374	410	498	565	596	369
75°	169	239	341	339	328	184
85°	37	57	59	54	55	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1096.6	1091.2	1093.0	1091.2	1087.7
5°	1093.0	1087.7	1089.5	1087.7	1085.9
7.5°	1089.5	1084.1	1085.9	1084.1	1084.1
10°	1082.3	1077.0	1080.5	1078.8	1077.0
12.5°	1071.6	1068.1	1071.6	1069.8	1069.8
15°	1057.4	1055.6	1060.9	1060.9	1060.9
17.5°	1043.1	1041.3	1048.4	1048.4	1048.4
20°	1025.3	1023.5	1034.2	1034.2	1034.2
22.5°	1003.9	1002.1	1016.4	1016.4	1016.4
25°	980.7	980.7	995.0	998.5	998.5
27.5°	957.5	957.5	973.6	978.9	978.9
30°	932.5	932.5	948.6	955.7	959.3
32.5°	902.2	905.8	923.6	932.5	936.1
35°	871.9	877.3	895.1	907.6	914.7
37.5°	839.8	845.2	866.6	880.8	889.8
40°	805.9	813.1	836.3	854.1	864.8
42.5°	768.5	779.2	805.9	829.1	843.4
45°	732.8	745.3	773.9	805.9	822.0
47.5°	693.6	707.9	740.0	781.0	797.0
50°	652.6	666.9	706.1	752.5	770.3
52.5°	611.6	627.6	674.0	723.9	745.3
55°	567.0	584.8	641.9	695.4	718.6
57.5°	520.7	542.1	606.2	663.3	688.3
60°	472.5	499.3	570.6	631.2	658.0
62.5°	422.6	454.7	534.9	599.1	627.6
65°	374.4	410.1	497.5	565.2	595.5
67.5°	322.7	367.3	460.0	533.1	561.7
70°	271.0	322.7	420.8	495.7	524.2
72.5°	219.3	281.7	381.6	449.3	449.3
75°	169.4	238.9	340.6	338.8	328.1
77.5°	128.4	199.7	279.9	238.9	240.7
80°	92.7	160.5	176.5	176.5	178.3
82.5°	62.4	123.0	114.1	112.3	115.9
85°	37.4	57.1	58.8	53.5	55.3
87.5°	17.8	19.6	16.0	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)