

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: P263354

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263354
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3443.0 lumens
Efficiency: N/A
Efficacy: 84.3 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

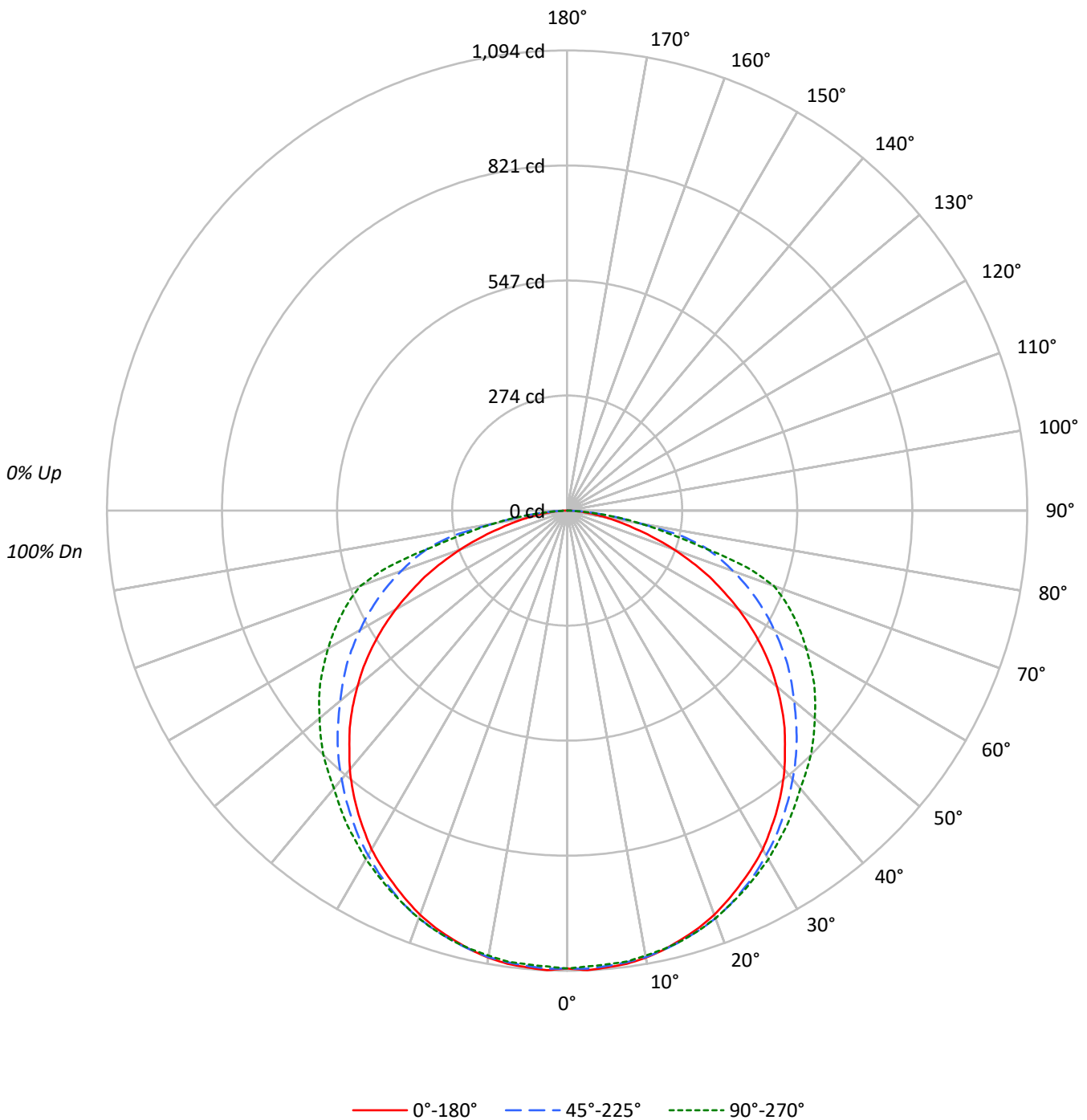
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	1464	1464	1464
5°	1472	1468	1463
10°	1475	1472	1468
15°	1469	1474	1474
20°	1464	1477	1477
25°	1452	1473	1478
30°	1445	1470	1487
35°	1429	1466	1498
40°	1412	1465	1515
45°	1391	1469	1560
50°	1362	1474	1608
55°	1327	1502	1681
60°	1268	1531	1766
65°	1189	1580	1891
70°	1063	1651	2057
75°	879	1766	1701
80°	717	1364	1378
85°	576	906	851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	3.0
10°-20°	298.3	8.7
20°-30°	455.9	13.2
30°-40°	557.6	16.2
40°-50°	596.6	17.3
50°-60°	571.3	16.6
60°-70°	483.3	14.0
70°-80°	306.3	8.9
80°-90°	70.5	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°	857.5	24.9
0°-40°	1415.1	41.1
0°-60°	2582.9	75.0
0°-90°	3443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1090	1085	1087	1085	1083	104
15°	1055	1053	1058	1058	1058	298
25°	978	978	992	996	996	451
35°	870	875	893	905	912	544
45°	731	743	772	804	820	563
55°	566	583	640	694	717	504
65°	374	409	496	564	594	368
75°	169	238	340	338	327	184
85°	37	57	59	53	55	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1093.7	1088.4	1090.2	1088.4	1084.8
5°	1090.2	1084.8	1086.6	1084.8	1083.1
7.5°	1086.6	1081.3	1083.1	1081.3	1081.3
10°	1079.5	1074.2	1077.7	1075.9	1074.2
12.5°	1068.8	1065.3	1068.8	1067.1	1067.1
15°	1054.6	1052.8	1058.2	1058.2	1058.2
17.5°	1040.4	1038.6	1045.7	1045.7	1045.7
20°	1022.6	1020.8	1031.5	1031.5	1031.5
22.5°	1001.3	999.5	1013.7	1013.7	1013.7
25°	978.1	978.1	992.4	995.9	995.9
27.5°	955.0	955.0	971.0	976.4	976.4
30°	930.1	930.1	946.1	953.2	956.8
32.5°	899.9	903.4	921.2	930.1	933.7
35°	869.7	875.0	892.8	905.2	912.3
37.5°	837.6	843.0	864.3	878.5	887.4
40°	803.8	811.0	834.1	851.9	862.5
42.5°	766.5	777.2	803.8	827.0	841.2
45°	730.9	743.4	771.8	803.8	819.9
47.5°	691.8	706.0	738.0	779.0	795.0
50°	650.9	665.1	704.3	750.5	768.3
52.5°	610.0	626.0	672.2	722.0	743.4
55°	565.5	583.3	640.2	693.6	716.7
57.5°	519.3	540.6	604.7	661.6	686.5
60°	471.3	498.0	569.1	629.6	656.2
62.5°	421.5	453.5	533.5	597.6	626.0
65°	373.5	409.0	496.2	563.8	594.0
67.5°	321.9	366.4	458.8	531.7	560.2
70°	270.3	321.9	419.7	494.4	522.9
72.5°	218.7	281.0	380.6	448.2	448.2
75°	169.0	238.3	339.7	337.9	327.2
77.5°	128.0	199.2	279.2	238.3	240.1
80°	92.5	160.1	176.1	176.1	177.8
82.5°	62.2	122.7	113.8	112.0	115.6
85°	37.3	56.9	58.7	53.4	55.1
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)