

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: P263409

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263409
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-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3464.0 lumens
Efficiency: N/A
Efficacy: 83.9 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

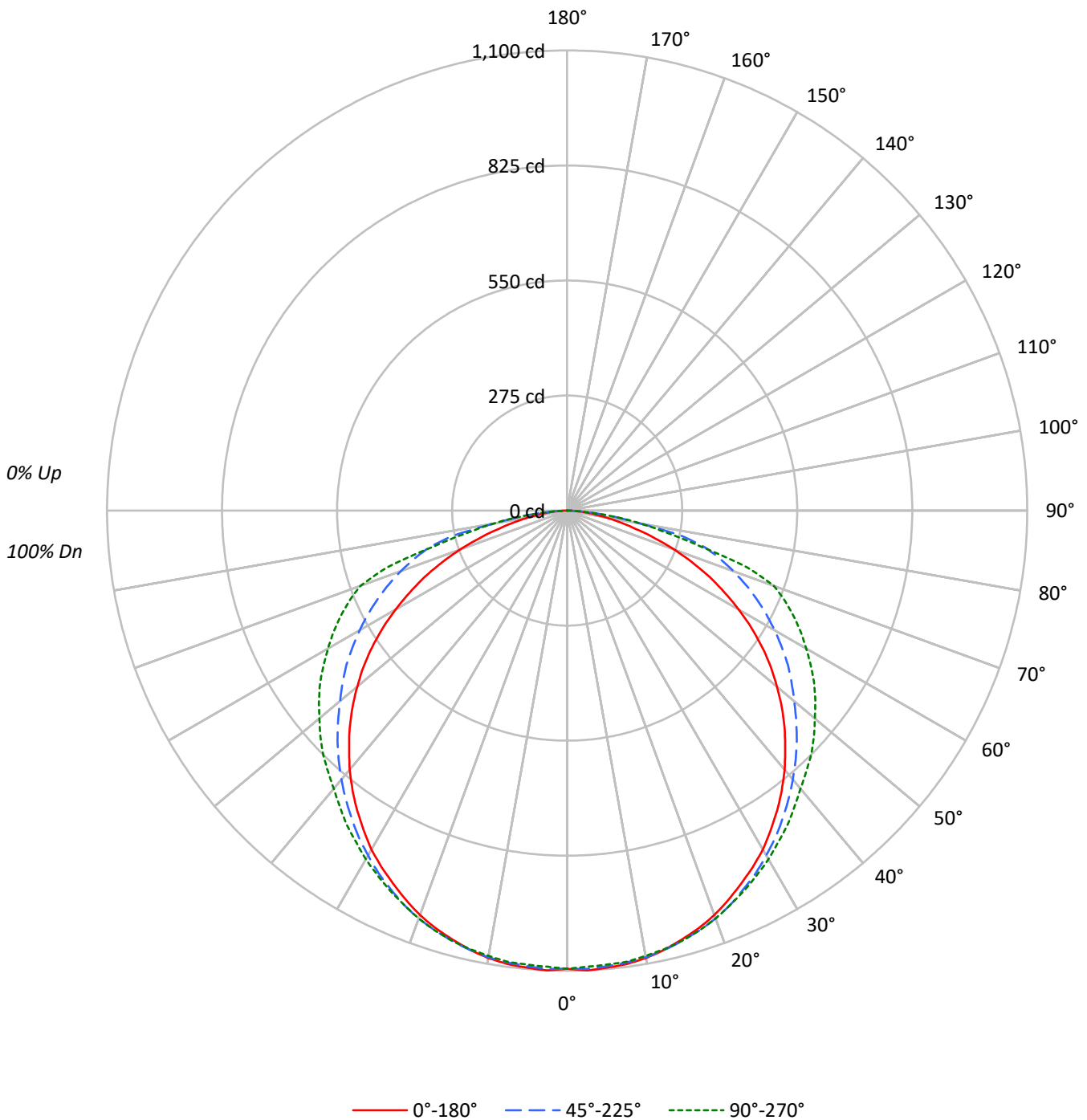
Input Watts (W): 41.292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1473	1473	1473
5°	1481	1477	1472
10°	1484	1481	1477
15°	1478	1483	1483
20°	1473	1486	1486
25°	1461	1482	1488
30°	1454	1479	1496
35°	1437	1475	1508
40°	1421	1474	1524
45°	1399	1478	1570
50°	1371	1483	1618
55°	1335	1511	1692
60°	1276	1541	1777
65°	1196	1589	1903
70°	1070	1661	2069
75°	884	1777	1711
80°	721	1372	1386
85°	580	911	857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	3.0
10°-20°	300.1	8.7
20°-30°	458.7	13.2
30°-40°	561.0	16.2
40°-50°	600.2	17.3
50°-60°	574.8	16.6
60°-70°	486.2	14.0
70°-80°	308.2	8.9
80°-90°	70.9	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°	862.8	24.9
0°-40°	1423.7	41.1
0°-60°	2598.7	75.0
0°-90°	3464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1097	1092	1093	1092	1090	104
15°	1061	1059	1065	1065	1065	300
25°	984	984	998	1002	1002	454
35°	875	880	898	911	918	547
45°	735	748	776	809	825	567
55°	569	587	644	698	721	508
65°	376	412	499	567	598	370
75°	170	240	342	340	329	185
85°	38	57	59	54	56	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.0	1095.0	1095.0	1095.0	1095.0
2.5°	1100.4	1095.0	1096.8	1095.0	1091.5
5°	1096.8	1091.5	1093.2	1091.5	1089.7
7.5°	1093.2	1087.9	1089.7	1087.9	1087.9
10°	1086.1	1080.7	1084.3	1082.5	1080.7
12.5°	1075.4	1071.8	1075.4	1073.6	1073.6
15°	1061.0	1059.2	1064.6	1064.6	1064.6
17.5°	1046.7	1044.9	1052.1	1052.1	1052.1
20°	1028.8	1027.0	1037.8	1037.8	1037.8
22.5°	1007.4	1005.6	1019.9	1019.9	1019.9
25°	984.1	984.1	998.4	1002.0	1002.0
27.5°	960.8	960.8	976.9	982.3	982.3
30°	935.8	935.8	951.9	959.1	962.6
32.5°	905.4	909.0	926.8	935.8	939.4
35°	875.0	880.3	898.2	910.7	917.9
37.5°	842.7	848.1	869.6	883.9	892.8
40°	808.8	815.9	839.2	857.1	867.8
42.5°	771.2	781.9	808.8	832.0	846.3
45°	735.4	747.9	776.5	808.8	824.9
47.5°	696.0	710.3	742.5	783.7	799.8
50°	654.9	669.2	708.6	755.1	773.0
52.5°	613.7	629.8	676.3	726.4	747.9
55°	569.0	586.9	644.1	697.8	721.1
57.5°	522.5	543.9	608.4	665.6	690.7
60°	474.2	501.0	572.6	633.4	660.2
62.5°	424.1	456.3	536.8	601.2	629.8
65°	375.7	411.5	499.2	567.2	597.6
67.5°	323.9	368.6	461.6	535.0	563.6
70°	272.0	323.9	422.3	497.4	526.0
72.5°	220.1	282.7	382.9	450.9	450.9
75°	170.0	239.8	341.8	340.0	329.2
77.5°	128.8	200.4	280.9	239.8	241.6
80°	93.0	161.0	177.1	177.1	178.9
82.5°	62.6	123.5	114.5	112.7	116.3
85°	37.6	57.3	59.0	53.7	55.5
87.5°	17.9	19.7	16.1	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)