

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: P263267

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263267
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-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3372.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

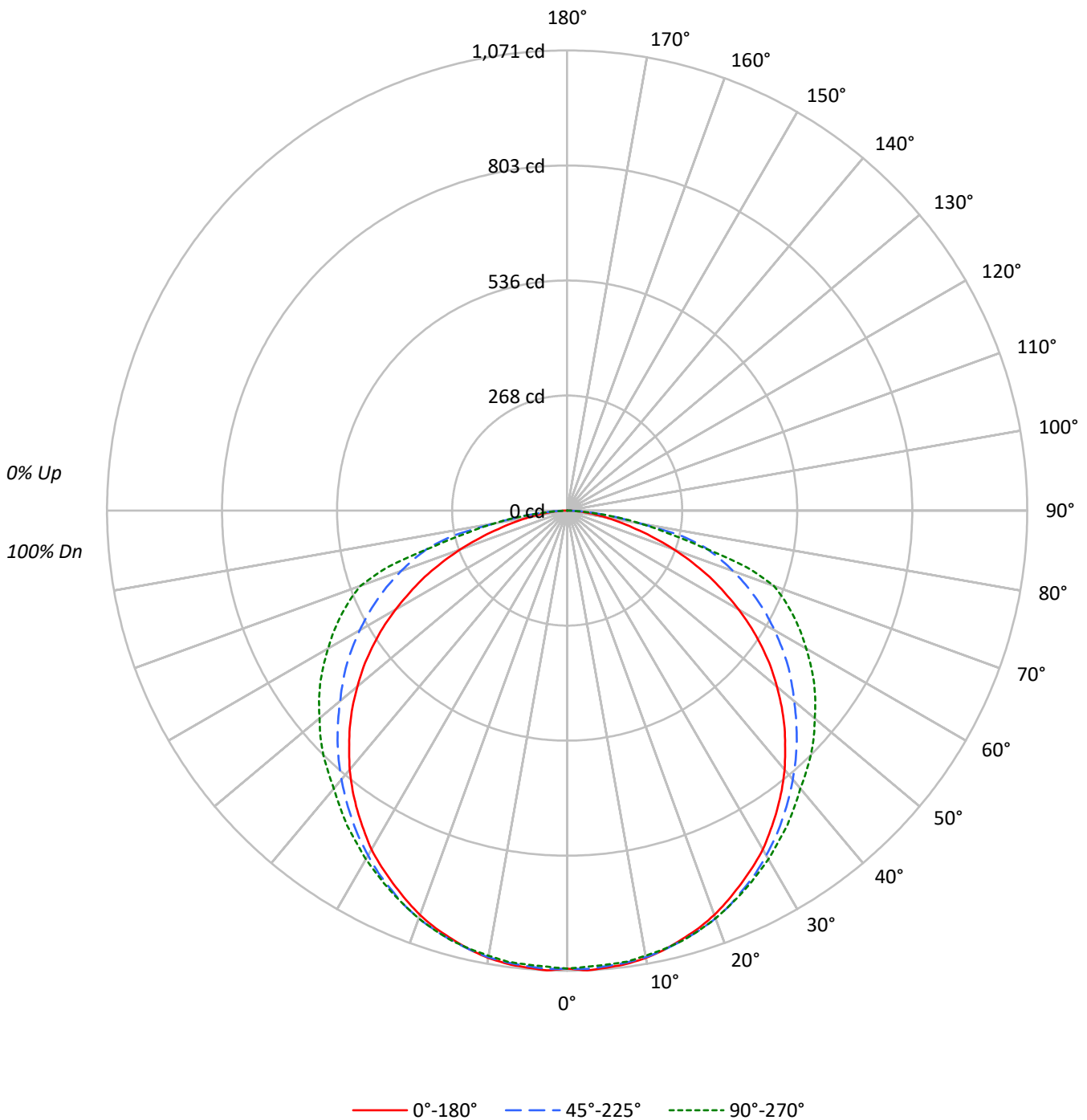
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1434	1434	1434
5°	1442	1437	1433
10°	1444	1442	1437
15°	1439	1444	1444
20°	1434	1446	1446
25°	1422	1443	1448
30°	1415	1440	1456
35°	1399	1436	1468
40°	1383	1435	1484
45°	1362	1438	1528
50°	1334	1444	1575
55°	1299	1471	1647
60°	1242	1500	1729
65°	1165	1547	1852
70°	1041	1617	2015
75°	860	1730	1666
80°	702	1336	1350
85°	565	888	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	3.0
10°-20°	292.1	8.7
20°-30°	446.5	13.2
30°-40°	546.1	16.2
40°-50°	584.3	17.3
50°-60°	559.5	16.6
60°-70°	473.3	14.0
70°-80°	300.0	8.9
80°-90°	69.0	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°	839.8	24.9
0°-40°	1385.9	41.1
0°-60°	2529.7	75.0
0°-90°	3372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1068	1062	1064	1062	1061	102
15°	1033	1031	1036	1036	1036	292
25°	958	958	972	975	975	442
35°	852	857	874	887	894	533
45°	716	728	756	787	803	551
55°	554	571	627	679	702	494
65°	366	401	486	552	582	360
75°	166	233	333	331	320	180
85°	37	56	58	52	54	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.0	1066.0	1066.0	1066.0	1066.0
2.5°	1071.2	1066.0	1067.7	1066.0	1062.5
5°	1067.7	1062.5	1064.2	1062.5	1060.7
7.5°	1064.2	1059.0	1060.7	1059.0	1059.0
10°	1057.2	1052.0	1055.5	1053.8	1052.0
12.5°	1046.8	1043.3	1046.8	1045.1	1045.1
15°	1032.9	1031.1	1036.3	1036.3	1036.3
17.5°	1018.9	1017.2	1024.2	1024.2	1024.2
20°	1001.5	999.8	1010.2	1010.2	1010.2
22.5°	980.6	978.9	992.8	992.8	992.8
25°	958.0	958.0	971.9	975.4	975.4
27.5°	935.3	935.3	951.0	956.2	956.2
30°	910.9	910.9	926.6	933.6	937.1
32.5°	881.3	884.8	902.2	910.9	914.4
35°	851.7	856.9	874.4	886.6	893.5
37.5°	820.4	825.6	846.5	860.4	869.1
40°	787.3	794.2	816.9	834.3	844.7
42.5°	750.7	761.1	787.3	809.9	823.8
45°	715.9	728.1	755.9	787.3	802.9
47.5°	677.5	691.5	722.8	762.9	778.6
50°	637.5	651.4	689.7	735.0	752.4
52.5°	597.4	613.1	658.4	707.2	728.1
55°	553.9	571.3	627.0	679.3	701.9
57.5°	508.6	529.5	592.2	647.9	672.3
60°	461.6	487.7	557.4	616.6	642.7
62.5°	412.8	444.1	522.5	585.2	613.1
65°	365.8	400.6	485.9	552.1	581.7
67.5°	315.3	358.8	449.4	520.8	548.7
70°	264.7	315.3	411.1	484.2	512.1
72.5°	214.2	275.2	372.7	438.9	438.9
75°	165.5	233.4	332.7	330.9	320.5
77.5°	125.4	195.1	273.5	233.4	235.1
80°	90.6	156.8	172.4	172.4	174.2
82.5°	61.0	120.2	111.5	109.7	113.2
85°	36.6	55.7	57.5	52.3	54.0
87.5°	17.4	19.2	15.7	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)