

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: P263143

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263143
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3311.0 lumens
Efficiency: N/A
Efficacy: 83.4 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

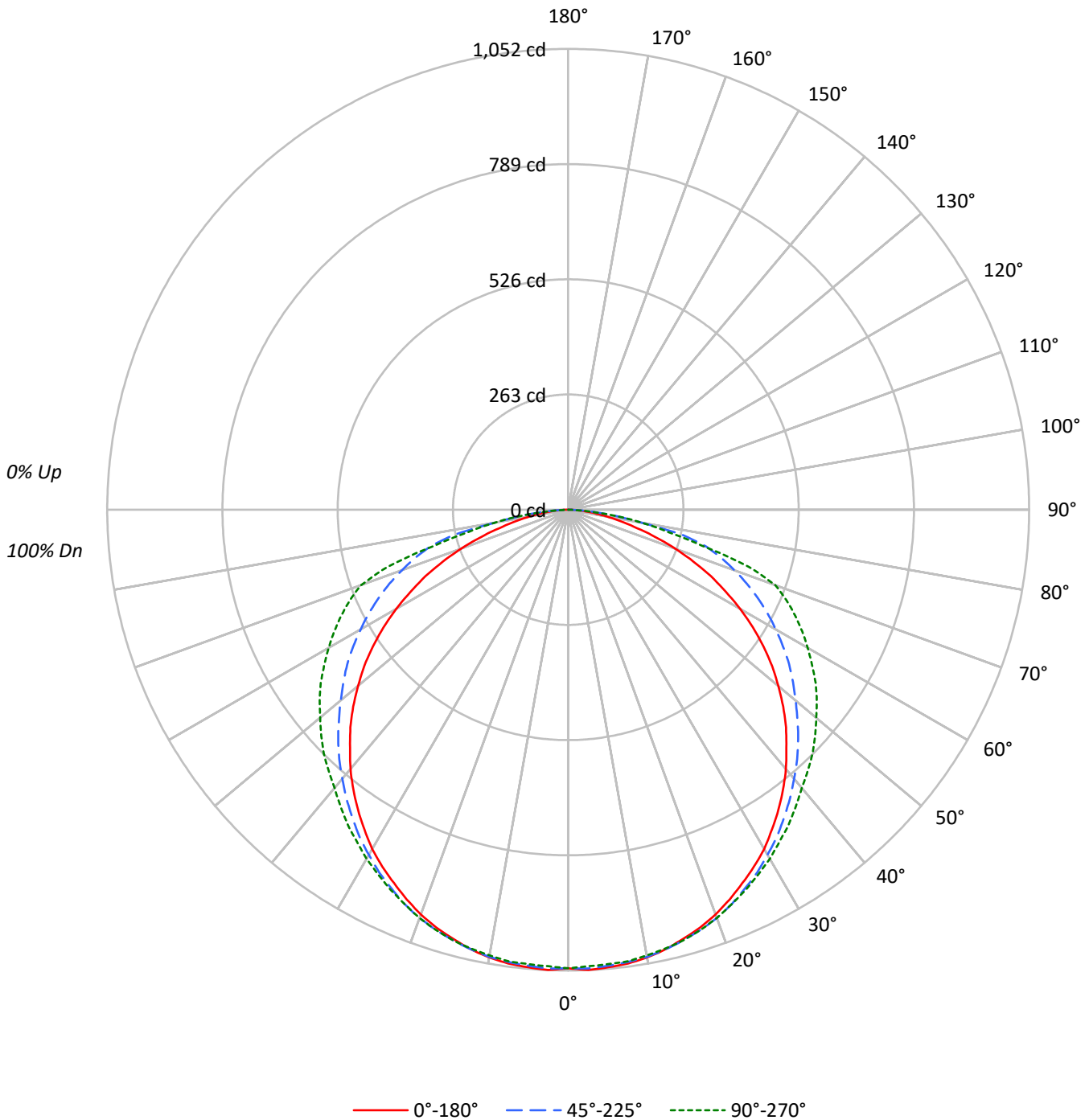
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1408	1408	1408
5°	1416	1411	1407
10°	1418	1416	1411
15°	1413	1417	1417
20°	1408	1420	1420
25°	1396	1417	1422
30°	1390	1413	1430
35°	1374	1410	1441
40°	1358	1409	1457
45°	1337	1412	1500
50°	1310	1418	1546
55°	1276	1444	1617
60°	1220	1473	1698
65°	1144	1519	1819
70°	1023	1588	1978
75°	845	1698	1636
80°	689	1312	1325
85°	554	871	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.0
10°-20°	286.8	8.7
20°-30°	438.4	13.2
30°-40°	536.2	16.2
40°-50°	573.7	17.3
50°-60°	549.4	16.6
60°-70°	464.7	14.0
70°-80°	294.6	8.9
80°-90°	67.8	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°	824.6	24.9
0°-40°	1360.8	41.1
0°-60°	2483.9	75.0
0°-90°	3311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3311.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1048	1043	1045	1043	1042	100
15°	1014	1012	1018	1018	1018	286
25°	941	941	954	958	958	434
35°	836	841	858	870	877	523
45°	703	715	742	773	788	541
55°	544	561	616	667	689	485
65°	359	393	477	542	571	354
75°	162	229	327	325	315	177
85°	36	55	56	51	53	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.7	1046.7	1046.7	1046.7	1046.7
2.5°	1051.8	1046.7	1048.4	1046.7	1043.2
5°	1048.4	1043.2	1045.0	1043.2	1041.5
7.5°	1045.0	1039.8	1041.5	1039.8	1039.8
10°	1038.1	1033.0	1036.4	1034.7	1033.0
12.5°	1027.9	1024.4	1027.9	1026.1	1026.1
15°	1014.2	1012.5	1017.6	1017.6	1017.6
17.5°	1000.5	998.8	1005.6	1005.6	1005.6
20°	983.4	981.7	991.9	991.9	991.9
22.5°	962.9	961.2	974.8	974.8	974.8
25°	940.6	940.6	954.3	957.7	957.7
27.5°	918.4	918.4	933.8	938.9	938.9
30°	894.5	894.5	909.8	916.7	920.1
32.5°	865.4	868.8	885.9	894.5	897.9
35°	836.3	841.4	858.5	870.5	877.4
37.5°	805.5	810.7	831.2	844.9	853.4
40°	773.0	779.9	802.1	819.2	829.5
42.5°	737.1	747.4	773.0	795.3	808.9
45°	702.9	714.9	742.2	773.0	788.4
47.5°	665.3	679.0	709.8	749.1	764.5
50°	625.9	639.6	677.3	721.7	738.8
52.5°	586.6	602.0	646.5	694.4	714.9
55°	543.9	561.0	615.7	667.0	689.2
57.5°	499.4	519.9	581.5	636.2	660.2
60°	453.2	478.9	547.3	605.4	631.1
62.5°	405.3	436.1	513.1	574.6	602.0
65°	359.2	393.4	477.2	542.1	571.2
67.5°	309.6	352.3	441.2	511.4	538.7
70°	260.0	309.6	403.6	475.4	502.8
72.5°	210.4	270.2	366.0	431.0	431.0
75°	162.5	229.2	326.7	324.9	314.7
77.5°	123.1	191.5	268.5	229.2	230.9
80°	88.9	153.9	169.3	169.3	171.0
82.5°	59.9	118.0	109.5	107.7	111.2
85°	35.9	54.7	56.4	51.3	53.0
87.5°	17.1	18.8	15.4	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)