

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: P263351

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263351
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3305.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

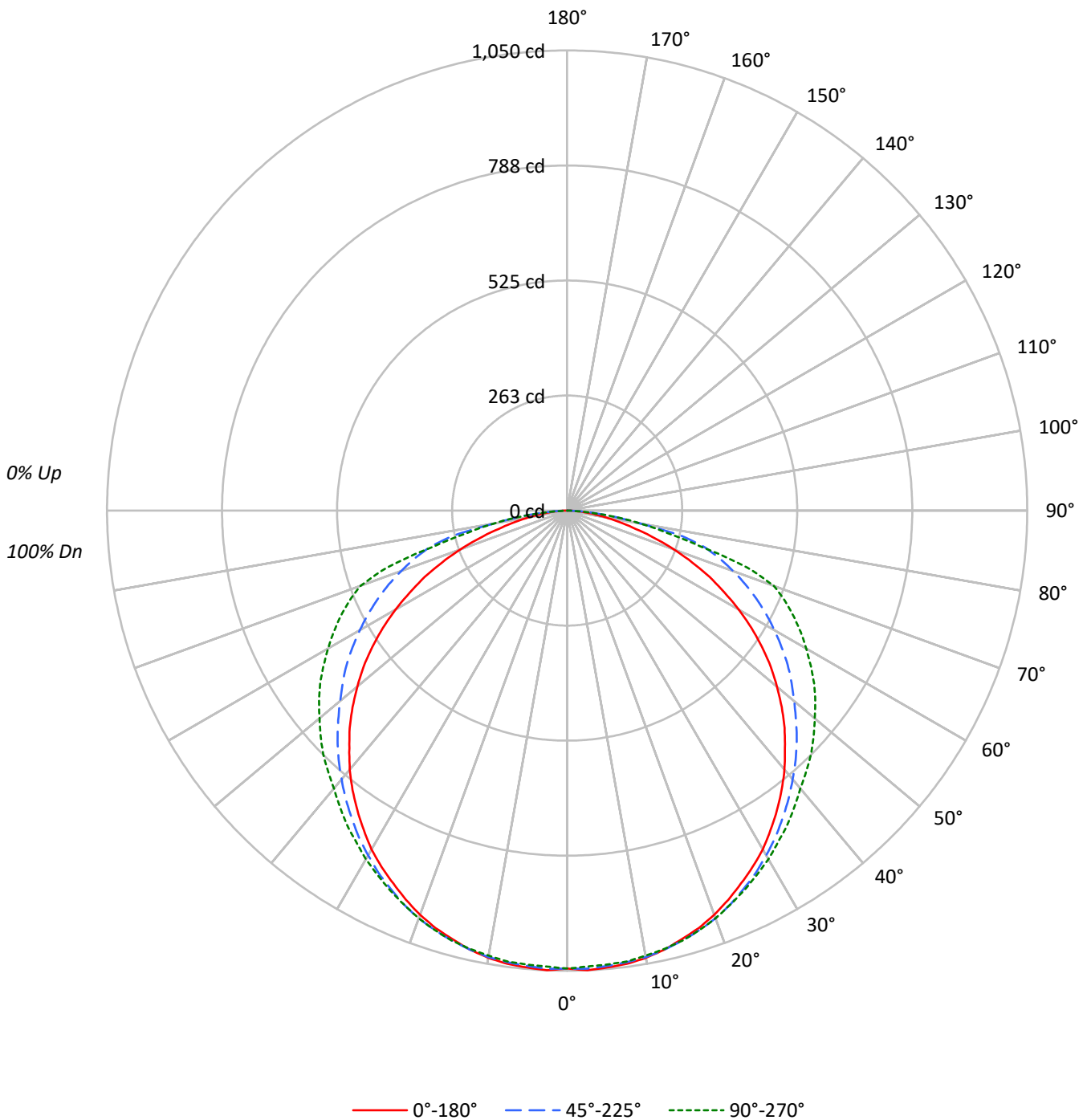
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1406	1406	1406
5°	1413	1409	1404
10°	1416	1413	1409
15°	1410	1415	1415
20°	1405	1418	1418
25°	1394	1414	1419
30°	1387	1411	1427
35°	1371	1408	1439
40°	1355	1406	1454
45°	1335	1410	1498
50°	1308	1415	1544
55°	1274	1442	1614
60°	1217	1470	1695
65°	1141	1516	1815
70°	1021	1585	1974
75°	843	1695	1633
80°	688	1309	1323
85°	554	869	817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.0
10°-20°	286.3	8.7
20°-30°	437.6	13.2
30°-40°	535.2	16.2
40°-50°	572.7	17.3
50°-60°	548.4	16.6
60°-70°	463.9	14.0
70°-80°	294.1	8.9
80°-90°	67.7	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°	823.2	24.9
0°-40°	1358.4	41.1
0°-60°	2479.4	75.0
0°-90°	3305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1045	1045	1045	1045	1045	
5°	1046	1041	1043	1041	1040	100
15°	1012	1011	1016	1016	1016	286
25°	939	939	953	956	956	433
35°	835	840	857	869	876	522
45°	702	714	741	772	787	541
55°	543	560	615	666	688	484
65°	358	393	476	541	570	353
75°	162	229	326	324	314	176
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°	1044.8	1044.8	1044.8	1044.8	1044.8
2.5°	1049.9	1044.8	1046.5	1044.8	1041.4
5°	1046.5	1041.4	1043.1	1041.4	1039.7
7.5°	1043.1	1037.9	1039.7	1037.9	1037.9
10°	1036.2	1031.1	1034.5	1032.8	1031.1
12.5°	1026.0	1022.6	1026.0	1024.3	1024.3
15°	1012.3	1010.6	1015.8	1015.8	1015.8
17.5°	998.7	997.0	1003.8	1003.8	1003.8
20°	981.6	979.9	990.1	990.1	990.1
22.5°	961.1	959.4	973.1	973.1	973.1
25°	938.9	938.9	952.6	956.0	956.0
27.5°	916.7	916.7	932.1	937.2	937.2
30°	892.8	892.8	908.2	915.0	918.4
32.5°	863.8	867.2	884.3	892.8	896.3
35°	834.8	839.9	857.0	868.9	875.8
37.5°	804.1	809.2	829.7	843.3	851.9
40°	771.6	778.5	800.7	817.7	828.0
42.5°	735.8	746.0	771.6	793.8	807.5
45°	701.6	713.6	740.9	771.6	787.0
47.5°	664.1	677.7	708.5	747.7	763.1
50°	624.8	638.5	676.0	720.4	737.5
52.5°	585.6	600.9	645.3	693.1	713.6
55°	542.9	559.9	614.6	665.8	688.0
57.5°	498.5	519.0	580.4	635.1	659.0
60°	452.4	478.0	546.3	604.3	629.9
62.5°	404.6	435.3	512.1	573.6	600.9
65°	358.5	392.6	476.3	541.2	570.2
67.5°	309.0	351.7	440.4	510.4	537.8
70°	259.5	309.0	402.9	474.6	501.9
72.5°	210.0	269.7	365.3	430.2	430.2
75°	162.2	228.8	326.1	324.4	314.1
77.5°	122.9	191.2	268.0	228.8	230.5
80°	88.8	153.6	169.0	169.0	170.7
82.5°	59.8	117.8	109.3	107.6	111.0
85°	35.9	54.6	56.3	51.2	52.9
87.5°	17.1	18.8	15.4	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)