

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: P263261

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263261
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-LD5-50-SQP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3321.0 lumens
Efficiency: N/A
Efficacy: 92.0 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

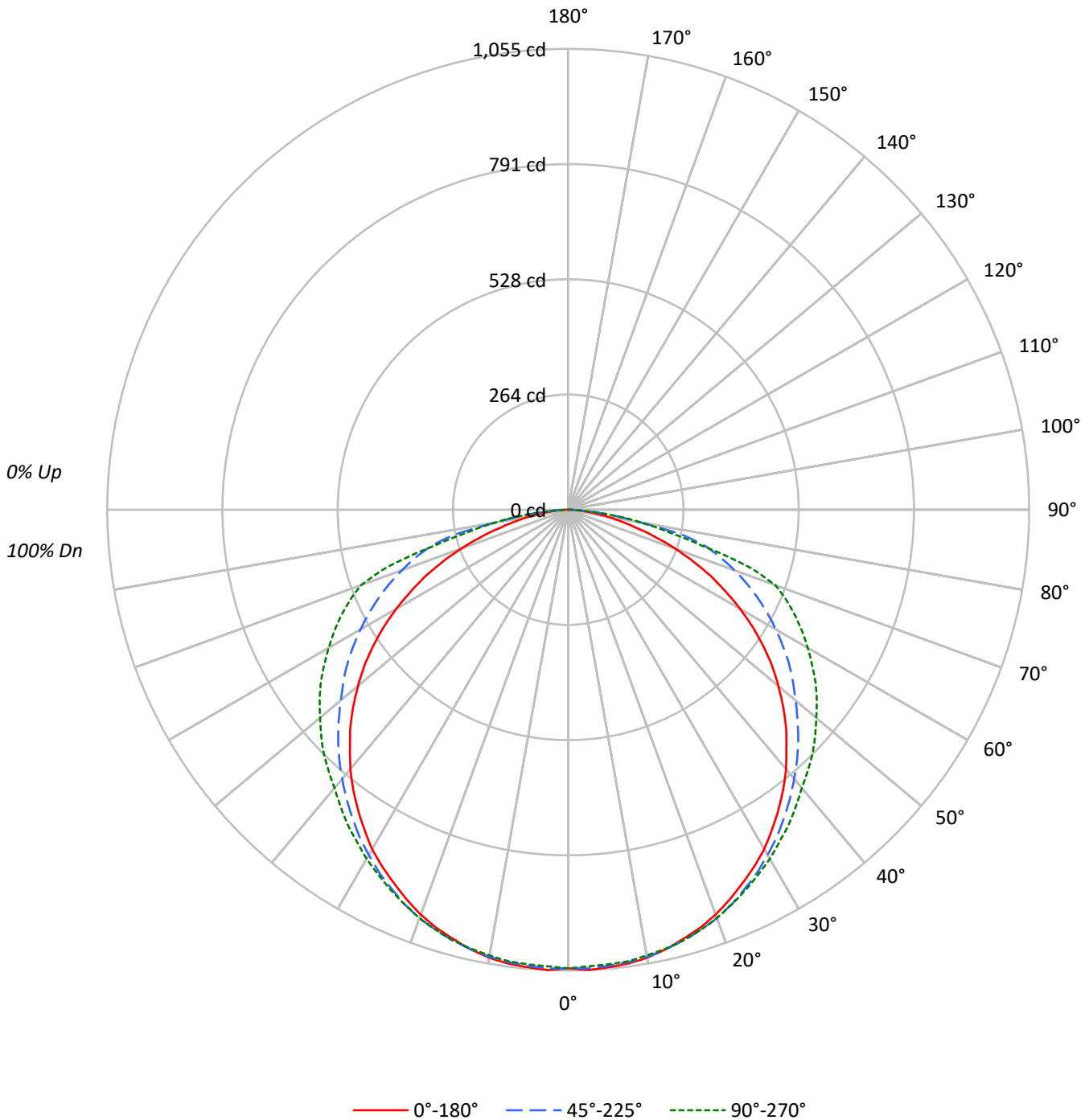
Input Watts (W): 36.084
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1412	1412	1412
5°	1420	1416	1411
10°	1423	1420	1416
15°	1417	1422	1422
20°	1412	1425	1425
25°	1401	1421	1426
30°	1394	1418	1434
35°	1378	1414	1445
40°	1362	1413	1461
45°	1341	1417	1505
50°	1314	1422	1551
55°	1280	1449	1622
60°	1223	1477	1703
65°	1147	1524	1824
70°	1026	1592	1984
75°	847	1703	1641
80°	691	1316	1329
85°	556	874	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.0
10°-20°	287.7	8.7
20°-30°	439.7	13.2
30°-40°	537.8	16.2
40°-50°	575.4	17.3
50°-60°	551.0	16.6
60°-70°	466.1	14.0
70°-80°	295.5	8.9
80°-90°	68.0	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°	827.1	24.9
0°-40°	1364.9	41.1
0°-60°	2491.4	75.0
0°-90°	3321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1052	1046	1048	1046	1045	100
15°	1017	1016	1021	1021	1021	287
25°	944	944	957	961	961	435
35°	839	844	861	873	880	525
45°	705	717	744	775	791	543
55°	546	563	618	669	691	487
65°	360	394	479	544	573	355
75°	163	230	328	326	316	177
85°	36	55	57	52	53	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1049.8	1049.8	1049.8	1049.8	1049.8
2.5°	1055.0	1049.8	1051.5	1049.8	1046.4
5°	1051.5	1046.4	1048.1	1046.4	1044.7
7.5°	1048.1	1043.0	1044.7	1043.0	1043.0
10°	1041.3	1036.1	1039.5	1037.8	1036.1
12.5°	1031.0	1027.5	1031.0	1029.2	1029.2
15°	1017.2	1015.5	1020.7	1020.7	1020.7
17.5°	1003.5	1001.8	1008.7	1008.7	1008.7
20°	986.4	984.6	994.9	994.9	994.9
22.5°	965.8	964.1	977.8	977.8	977.8
25°	943.5	943.5	957.2	960.6	960.6
27.5°	921.2	921.2	936.6	941.8	941.8
30°	897.2	897.2	912.6	919.5	922.9
32.5°	868.0	871.4	888.6	897.2	900.6
35°	838.8	844.0	861.1	873.1	880.0
37.5°	808.0	813.1	833.7	847.4	856.0
40°	775.4	782.2	804.5	821.7	832.0
42.5°	739.3	749.6	775.4	797.7	811.4
45°	705.0	717.0	744.5	775.4	790.8
47.5°	667.3	681.0	711.9	751.3	766.8
50°	627.8	641.6	679.3	723.9	741.1
52.5°	588.4	603.8	648.4	696.5	717.0
55°	545.5	562.7	617.5	669.0	691.3
57.5°	500.9	521.5	583.2	638.1	662.1
60°	454.6	480.3	548.9	607.3	633.0
62.5°	406.6	437.4	514.6	576.4	603.8
65°	360.2	394.5	478.6	543.8	572.9
67.5°	310.5	353.4	442.6	512.9	540.4
70°	260.7	310.5	404.8	476.9	504.3
72.5°	211.0	271.0	367.1	432.3	432.3
75°	163.0	229.9	327.6	325.9	315.6
77.5°	123.5	192.1	269.3	229.9	231.6
80°	89.2	154.4	169.8	169.8	171.5
82.5°	60.0	118.4	109.8	108.1	111.5
85°	36.0	54.9	56.6	51.5	53.2
87.5°	17.2	18.9	15.4	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)