

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: P263909

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3263.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

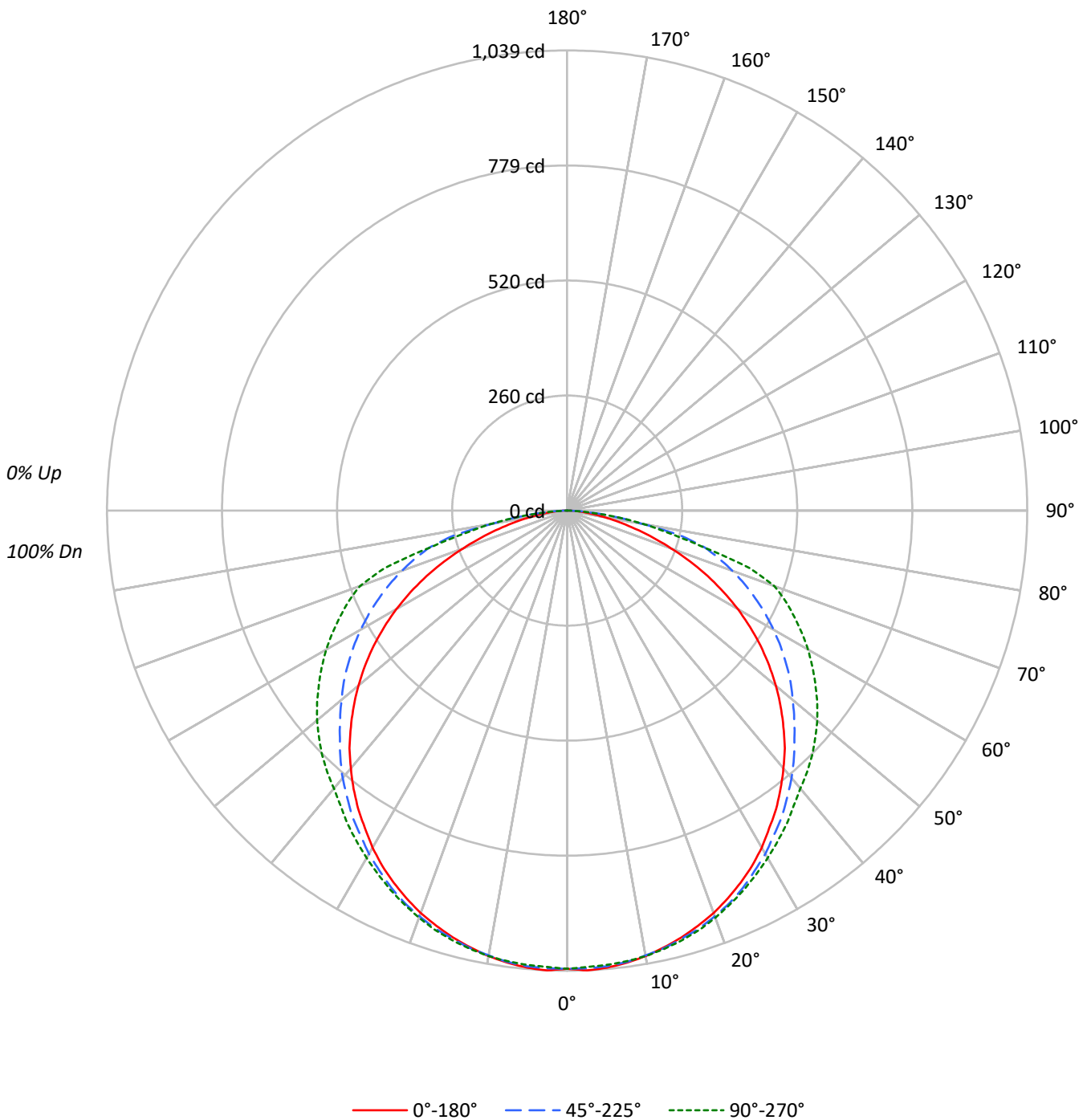
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1392	1392	1392
5°	1399	1395	1391
10°	1396	1393	1396
15°	1389	1394	1398
20°	1384	1396	1401
25°	1376	1395	1402
30°	1365	1390	1407
35°	1351	1388	1419
40°	1334	1385	1439
45°	1314	1381	1488
50°	1288	1392	1543
55°	1251	1417	1605
60°	1197	1448	1690
65°	1115	1493	1800
70°	986	1561	1959
75°	827	1670	1645
80°	659	1320	1369
85°	520	892	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	3.0
10°-20°	282.4	8.7
20°-30°	431.3	13.2
30°-40°	527.3	16.2
40°-50°	564.4	17.3
50°-60°	541.3	16.6
60°-70°	457.1	14.0
70°-80°	292.1	9.0
80°-90°	69.1	2.1
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°	811.7	24.9
0°-40°	1339.0	41.0
0°-60°	2444.7	74.9
0°-90°	3263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1036	1030	1033	1031	1030	98
15°	998	994	1001	1004	1004	282
25°	927	925	940	943	944	427
35°	822	829	845	856	864	514
45°	691	702	726	760	782	533
55°	533	551	604	658	684	476
65°	350	384	469	535	565	345
75°	159	226	321	328	316	171
85°	34	56	58	56	53	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.4	1034.4	1034.4	1034.4	1034.4
2.5°	1039.2	1032.8	1034.4	1034.4	1031.2
5°	1036.0	1029.6	1032.8	1031.2	1029.6
7.5°	1029.6	1024.8	1028.0	1028.0	1026.4
10°	1021.5	1016.7	1019.9	1021.5	1021.5
12.5°	1010.3	1007.1	1011.9	1011.9	1013.5
15°	997.5	994.2	1000.7	1003.9	1003.9
17.5°	983.0	981.4	989.4	991.0	992.6
20°	966.9	965.3	975.0	975.0	978.2
22.5°	947.7	946.1	958.9	958.9	962.1
25°	926.8	925.2	939.6	942.8	944.5
27.5°	904.3	902.7	917.1	922.0	925.2
30°	878.6	878.6	894.7	901.1	905.9
32.5°	849.7	854.5	869.0	878.6	885.0
35°	822.4	828.8	844.9	856.1	864.1
37.5°	791.9	798.3	816.0	830.4	840.0
40°	759.7	767.8	788.6	804.7	819.2
42.5°	727.6	735.6	758.1	782.2	801.5
45°	690.7	701.9	726.0	759.7	782.2
47.5°	653.7	665.0	695.5	737.2	759.7
50°	615.2	628.0	665.0	713.2	737.2
52.5°	575.0	589.5	636.1	687.5	711.6
55°	533.3	550.9	603.9	658.5	684.2
57.5°	489.9	509.2	571.8	629.6	656.9
60°	444.9	469.0	538.1	599.1	628.0
62.5°	398.3	427.3	504.3	567.0	597.5
65°	350.2	383.9	469.0	534.9	565.4
67.5°	300.4	345.3	433.7	502.7	533.3
70°	250.6	303.6	396.7	467.4	497.9
72.5°	204.0	265.0	359.8	425.6	432.1
75°	159.0	226.5	321.2	327.7	316.4
77.5°	118.9	187.9	265.0	236.1	234.5
80°	85.1	151.0	170.3	175.1	176.7
82.5°	56.2	114.0	110.8	114.0	112.4
85°	33.7	56.2	57.8	56.2	53.0
87.5°	16.1	20.9	16.1	14.5	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)