

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: P263352

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263352
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3364.0 lumens
Efficiency: N/A
Efficacy: 83.2 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

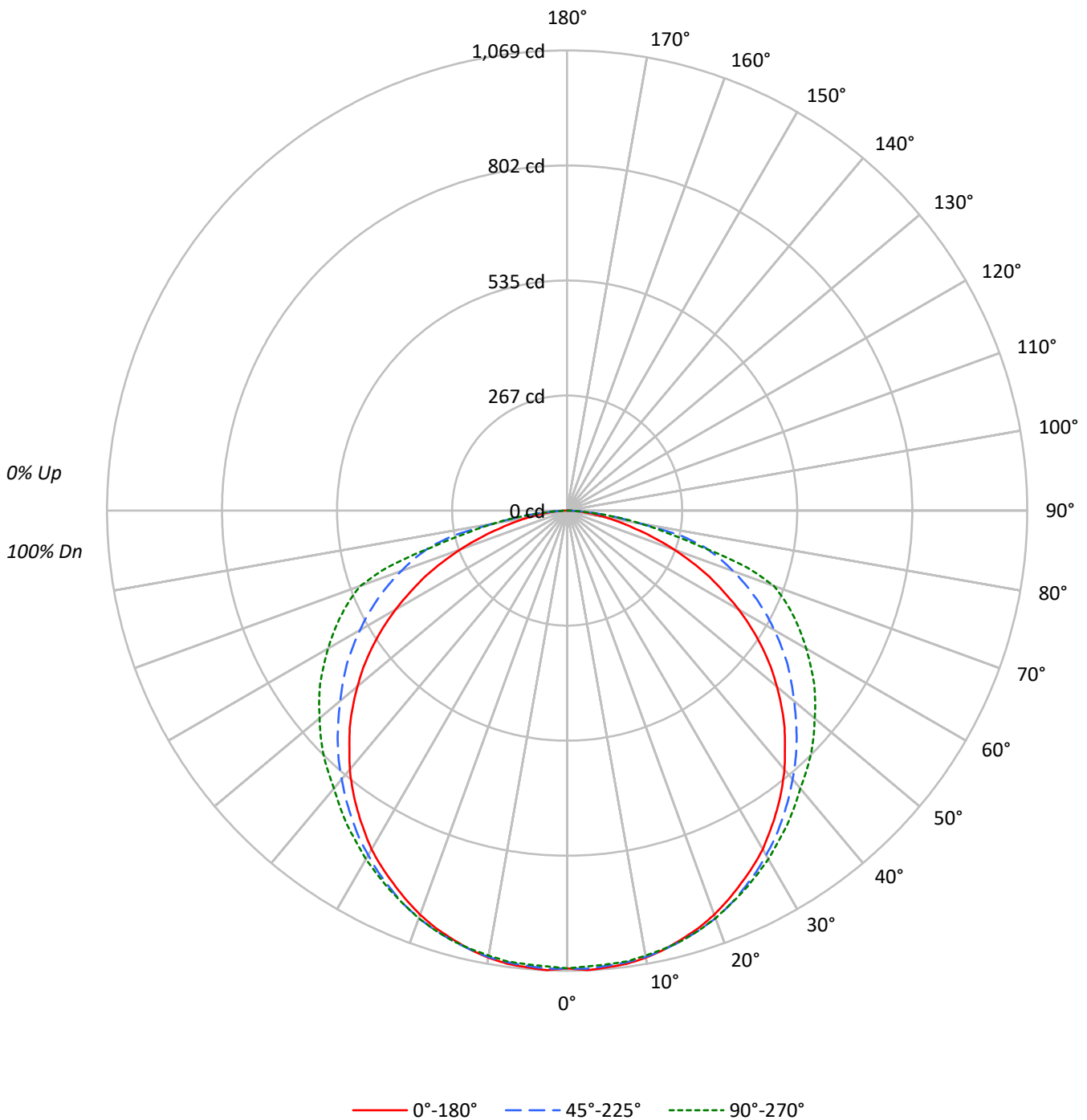
Input Watts (W): 40.455
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1431	1431	1431
5°	1439	1434	1429
10°	1441	1439	1434
15°	1435	1440	1440
20°	1431	1443	1443
25°	1419	1439	1445
30°	1412	1436	1452
35°	1396	1433	1464
40°	1379	1431	1480
45°	1359	1435	1524
50°	1331	1440	1571
55°	1296	1467	1643
60°	1239	1496	1725
65°	1162	1543	1848
70°	1039	1613	2010
75°	858	1725	1662
80°	700	1333	1347
85°	563	885	832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.0
10°-20°	291.4	8.7
20°-30°	445.4	13.2
30°-40°	544.8	16.2
40°-50°	582.9	17.3
50°-60°	558.2	16.6
60°-70°	472.2	14.0
70°-80°	299.3	8.9
80°-90°	68.8	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°	837.8	24.9
0°-40°	1382.6	41.1
0°-60°	2523.7	75.0
0°-90°	3364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1065	1060	1062	1060	1058	101
15°	1030	1029	1034	1034	1034	291
25°	956	956	970	973	973	441
35°	850	855	872	884	891	532
45°	714	726	754	785	801	550
55°	553	570	626	678	700	493
65°	365	400	485	551	580	359
75°	165	233	332	330	320	179
85°	36	56	57	52	54	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1063.4	1063.4	1063.4	1063.4	1063.4
2.5°	1068.6	1063.4	1065.2	1063.4	1059.9
5°	1065.2	1059.9	1061.7	1059.9	1058.2
7.5°	1061.7	1056.5	1058.2	1056.5	1056.5
10°	1054.7	1049.5	1053.0	1051.3	1049.5
12.5°	1044.3	1040.8	1044.3	1042.6	1042.6
15°	1030.4	1028.7	1033.9	1033.9	1033.9
17.5°	1016.5	1014.8	1021.7	1021.7	1021.7
20°	999.1	997.4	1007.8	1007.8	1007.8
22.5°	978.3	976.5	990.4	990.4	990.4
25°	955.7	955.7	969.6	973.1	973.1
27.5°	933.1	933.1	948.7	954.0	954.0
30°	908.8	908.8	924.4	931.4	934.8
32.5°	879.2	882.7	900.1	908.8	912.3
35°	849.7	854.9	872.3	884.4	891.4
37.5°	818.4	823.6	844.5	858.4	867.1
40°	785.4	792.4	814.9	832.3	842.7
42.5°	748.9	759.3	785.4	808.0	821.9
45°	714.2	726.3	754.1	785.4	801.0
47.5°	675.9	689.8	721.1	761.1	776.7
50°	636.0	649.9	688.1	733.3	750.7
52.5°	596.0	611.6	656.8	705.5	726.3
55°	552.6	569.9	625.5	677.7	700.3
57.5°	507.4	528.2	590.8	646.4	670.7
60°	460.5	486.5	556.0	615.1	641.2
62.5°	411.8	443.1	521.3	583.8	611.6
65°	364.9	399.7	484.8	550.8	580.4
67.5°	314.5	357.9	448.3	519.5	547.4
70°	264.1	314.5	410.1	483.1	510.9
72.5°	213.7	274.5	371.9	437.9	437.9
75°	165.1	232.8	331.9	330.1	319.7
77.5°	125.1	194.6	272.8	232.8	234.6
80°	90.4	156.4	172.0	172.0	173.8
82.5°	60.8	119.9	111.2	109.5	112.9
85°	36.5	55.6	57.3	52.1	53.9
87.5°	17.4	19.1	15.6	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)