

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: P263182

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263182
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-LD5-65-SQP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3366.3 lumens
Efficiency: N/A
Efficacy: 67.3 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

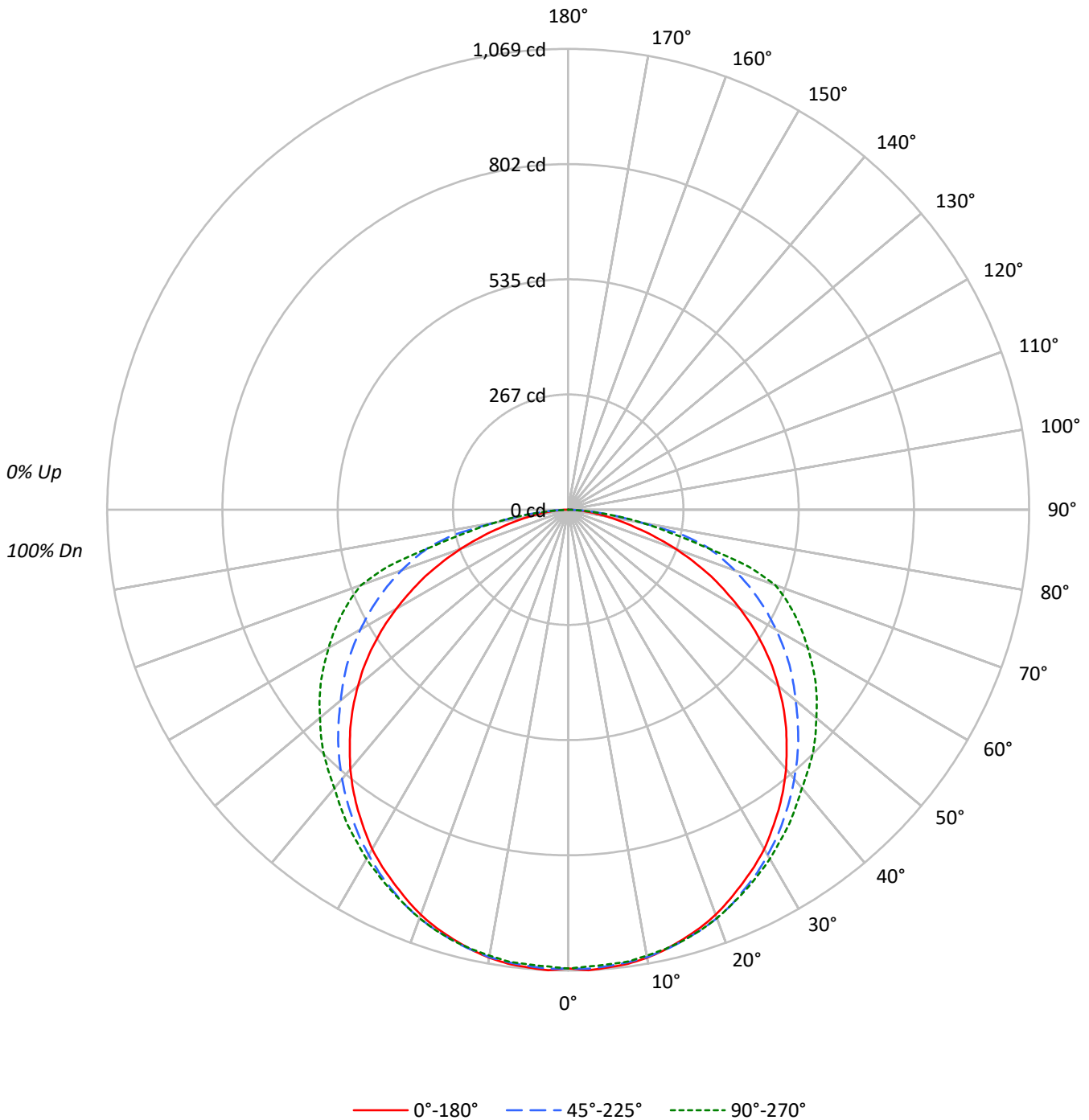
Input Watts (W): 50.043114
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1432	1432	1432
5°	1440	1435	1430
10°	1442	1440	1435
15°	1436	1441	1441
20°	1432	1444	1444
25°	1420	1440	1446
30°	1413	1437	1453
35°	1397	1434	1465
40°	1380	1432	1481
45°	1360	1436	1525
50°	1332	1441	1572
55°	1297	1468	1644
60°	1240	1497	1727
65°	1162	1544	1849
70°	1040	1614	2011
75°	859	1726	1663
80°	700	1333	1347
85°	563	886	832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.0
10°-20°	291.6	8.7
20°-30°	445.7	13.2
30°-40°	545.1	16.2
40°-50°	583.3	17.3
50°-60°	558.5	16.6
60°-70°	472.5	14.0
70°-80°	299.5	8.9
80°-90°	68.9	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°	838.4	24.9
0°-40°	1383.6	41.1
0°-60°	2525.4	75.0
0°-90°	3366.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3366.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1066	1061	1062	1061	1059	101
15°	1031	1029	1035	1035	1035	291
25°	956	956	970	974	974	441
35°	850	856	873	885	892	532
45°	715	727	755	786	802	551
55°	553	570	626	678	701	493
65°	365	400	485	551	581	360
75°	165	233	332	330	320	180
85°	36	56	57	52	54	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.1	1064.1	1064.1	1064.1	1064.1
2.5°	1069.4	1064.1	1065.9	1064.1	1060.7
5°	1065.9	1060.7	1062.4	1060.7	1058.9
7.5°	1062.4	1057.2	1058.9	1057.2	1057.2
10°	1055.4	1050.2	1053.7	1052.0	1050.2
12.5°	1045.0	1041.5	1045.0	1043.3	1043.3
15°	1031.1	1029.4	1034.6	1034.6	1034.6
17.5°	1017.2	1015.5	1022.4	1022.4	1022.4
20°	999.8	998.1	1008.5	1008.5	1008.5
22.5°	978.9	977.2	991.1	991.1	991.1
25°	956.3	956.3	970.2	973.7	973.7
27.5°	933.7	933.7	949.4	954.6	954.6
30°	909.4	909.4	925.0	932.0	935.5
32.5°	879.8	883.3	900.7	909.4	912.9
35°	850.3	855.5	872.9	885.0	892.0
37.5°	819.0	824.2	845.1	859.0	867.7
40°	785.9	792.9	815.5	832.9	843.3
42.5°	749.4	759.9	785.9	808.5	822.5
45°	714.6	726.8	754.6	785.9	801.6
47.5°	676.4	690.3	721.6	761.6	777.2
50°	636.4	650.3	688.6	733.8	751.2
52.5°	596.4	612.1	657.3	706.0	726.8
55°	552.9	570.3	626.0	678.1	700.7
57.5°	507.7	528.6	591.2	646.8	671.2
60°	460.8	486.9	556.4	615.5	641.6
62.5°	412.1	443.4	521.6	584.2	612.1
65°	365.1	399.9	485.1	551.2	580.8
67.5°	314.7	358.2	448.6	519.9	547.7
70°	264.3	314.7	410.4	483.4	511.2
72.5°	213.9	274.7	372.1	438.2	438.2
75°	165.2	233.0	332.1	330.4	319.9
77.5°	125.2	194.7	273.0	233.0	234.7
80°	90.4	156.5	172.1	172.1	173.9
82.5°	60.9	120.0	111.3	109.5	113.0
85°	36.5	55.6	57.4	52.2	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)