

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: P263090

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263090
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-LD5-45-SQP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3147.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

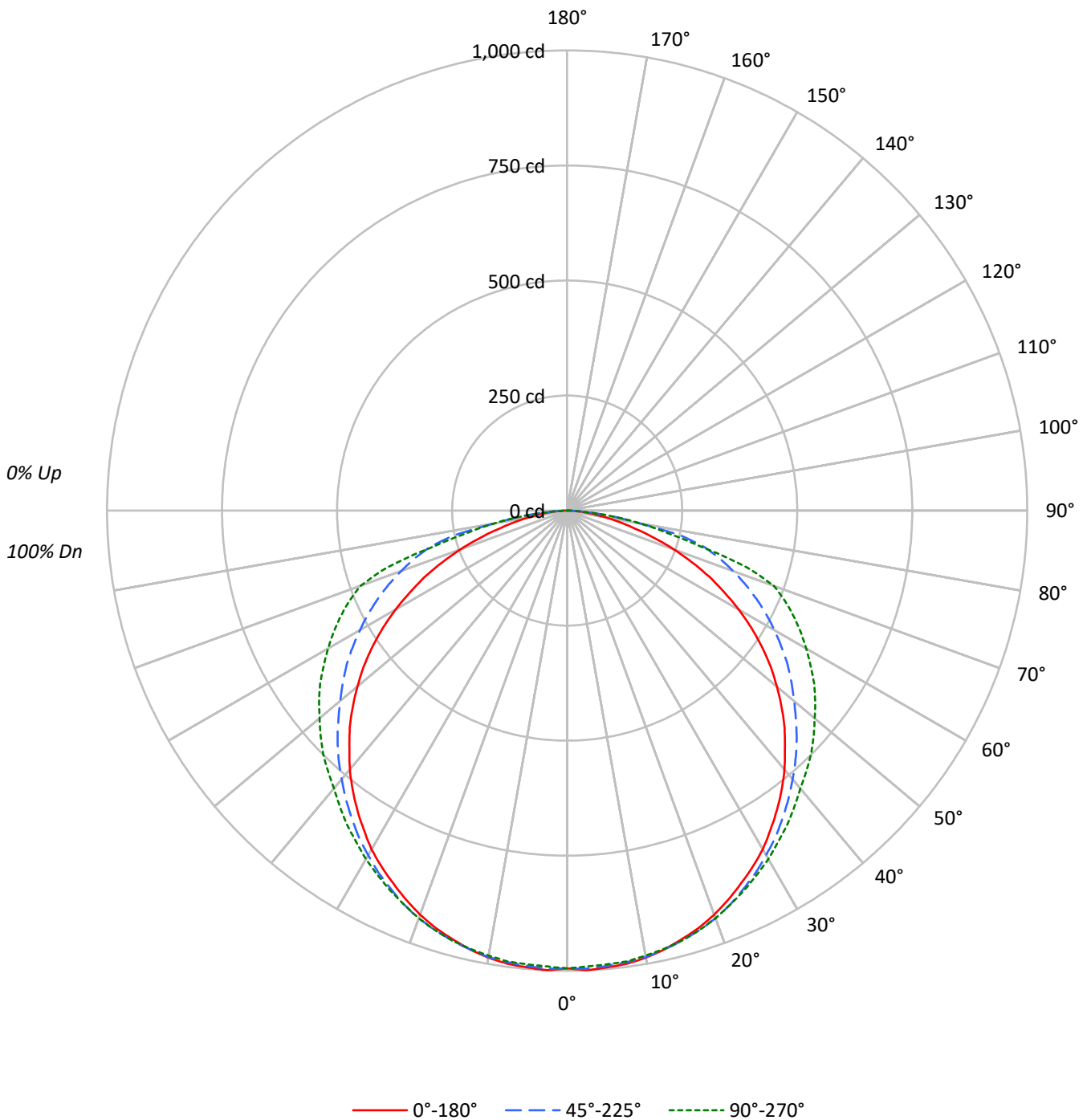
Input Watts (W): 32.974266
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1338	1338	1338
5°	1346	1341	1337
10°	1348	1346	1341
15°	1343	1347	1347
20°	1338	1350	1350
25°	1327	1347	1351
30°	1321	1344	1359
35°	1306	1340	1370
40°	1290	1339	1385
45°	1271	1342	1426
50°	1245	1347	1470
55°	1213	1373	1537
60°	1159	1400	1614
65°	1087	1444	1728
70°	972	1509	1880
75°	803	1614	1555
80°	655	1247	1260
85°	526	827	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.0
10°-20°	272.6	8.7
20°-30°	416.7	13.2
30°-40°	509.6	16.2
40°-50°	545.3	17.3
50°-60°	522.2	16.6
60°-70°	441.7	14.0
70°-80°	280.0	8.9
80°-90°	64.4	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°	783.8	24.9
0°-40°	1293.4	41.1
0°-60°	2360.9	75.0
0°-90°	3147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	996	992	993	992	990	95
15°	964	962	967	967	967	272
25°	894	894	907	910	910	412
35°	795	800	816	827	834	497
45°	668	680	706	735	749	515
55°	517	533	585	634	655	461
65°	341	374	454	515	543	336
75°	154	218	310	309	299	168
85°	34	52	54	49	50	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.8	994.8	994.8	994.8	994.8
2.5°	999.7	994.8	996.5	994.8	991.6
5°	996.5	991.6	993.2	991.6	989.9
7.5°	993.2	988.3	989.9	988.3	988.3
10°	986.7	981.8	985.1	983.4	981.8
12.5°	976.9	973.7	976.9	975.3	975.3
15°	963.9	962.3	967.2	967.2	967.2
17.5°	950.9	949.3	955.8	955.8	955.8
20°	934.7	933.1	942.8	942.8	942.8
22.5°	915.2	913.5	926.6	926.6	926.6
25°	894.0	894.0	907.0	910.3	910.3
27.5°	872.9	872.9	887.5	892.4	892.4
30°	850.2	850.2	864.8	871.3	874.5
32.5°	822.5	825.8	842.0	850.2	853.4
35°	794.9	799.8	816.0	827.4	833.9
37.5°	765.6	770.5	790.0	803.0	811.1
40°	734.7	741.2	762.4	778.6	788.4
42.5°	700.6	710.4	734.7	755.9	768.9
45°	668.1	679.5	705.5	734.7	749.4
47.5°	632.3	645.3	674.6	712.0	726.6
50°	594.9	607.9	643.7	686.0	702.2
52.5°	557.6	572.2	614.5	660.0	679.5
55°	516.9	533.2	585.2	634.0	655.1
57.5°	474.7	494.2	552.7	604.7	627.5
60°	430.8	455.1	520.2	575.4	599.8
62.5°	385.3	414.5	487.7	546.2	572.2
65°	341.4	373.9	453.5	515.3	542.9
67.5°	294.2	334.9	419.4	486.0	512.0
70°	247.1	294.2	383.6	451.9	477.9
72.5°	199.9	256.8	347.9	409.6	409.6
75°	154.4	217.8	310.5	308.9	299.1
77.5°	117.0	182.1	255.2	217.8	219.4
80°	84.5	146.3	160.9	160.9	162.6
82.5°	56.9	112.2	104.0	102.4	105.7
85°	34.1	52.0	53.6	48.8	50.4
87.5°	16.3	17.9	14.6	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)