

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: P261262

Luminaire Tested: **24CZ-LD5-30-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2895.0 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

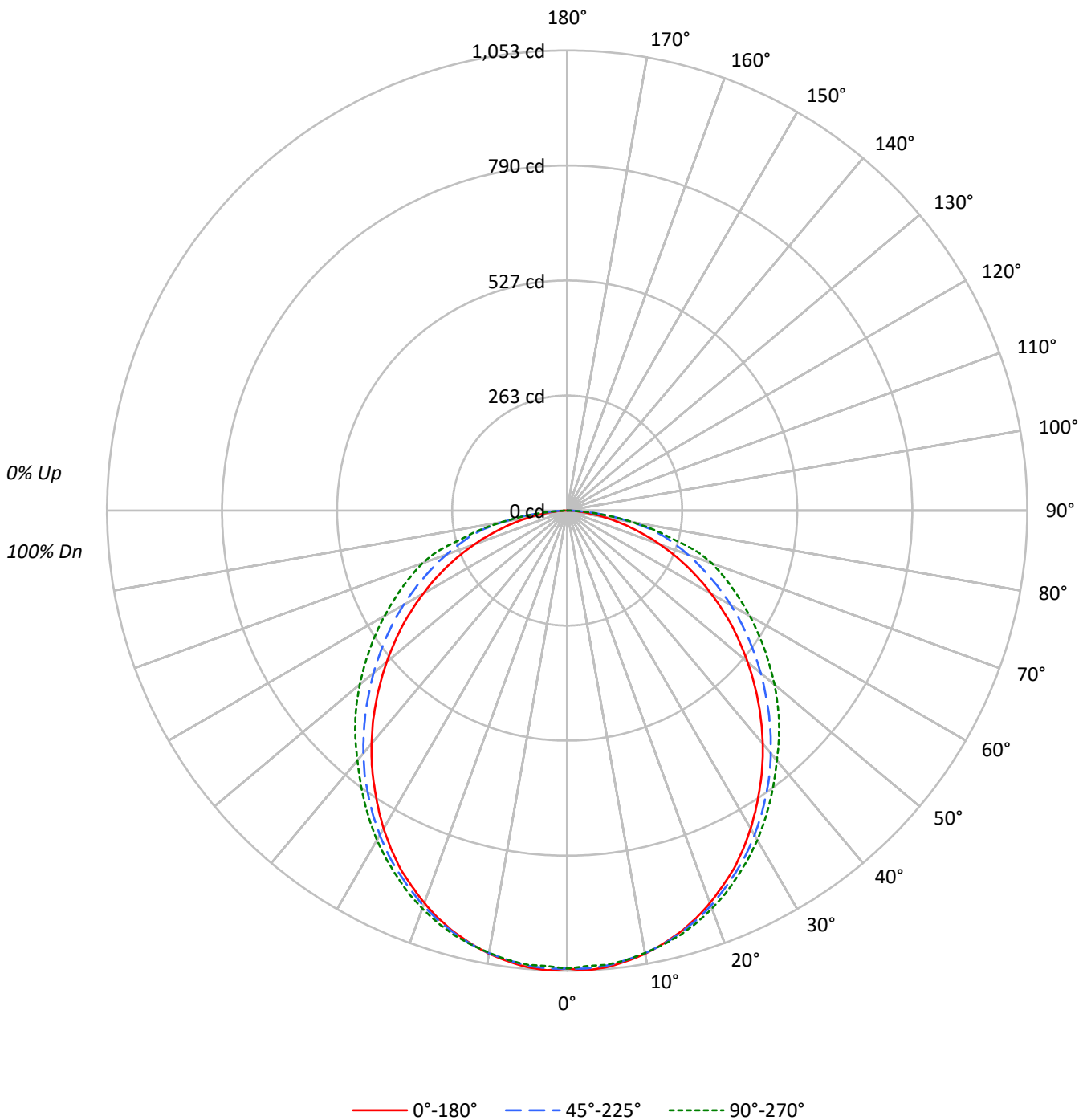
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1410	1410	1410
5°	1417	1412	1409
10°	1407	1406	1404
15°	1391	1394	1399
20°	1368	1378	1388
25°	1341	1356	1370
30°	1305	1332	1353
35°	1264	1304	1331
40°	1223	1274	1311
45°	1177	1241	1305
50°	1129	1210	1297
55°	1080	1184	1293
60°	1024	1164	1299
65°	963	1150	1325
70°	887	1156	1387
75°	786	1197	1292
80°	657	1134	1165
85°	491	908	832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	3.4
10°-20°	281.8	9.7
20°-30°	420.0	14.5
30°-40°	494.4	17.1
40°-50°	502.4	17.4
50°-60°	451.7	15.6
60°-70°	356.8	12.3
70°-80°	226.4	7.8
80°-90°	62.5	2.2
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°	800.9	27.7
0°-40°	1295.2	44.7
0°-60°	2249.3	77.7
0°-90°	2895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1049	1040	1045	1043	1043	99
15°	999	994	1001	1004	1005	281
25°	904	903	913	919	923	415
35°	770	774	794	802	810	482
45°	618	627	652	671	686	477
55°	460	472	505	538	551	411
65°	302	318	361	401	416	300
75°	151	177	230	250	248	161
85°	32	55	59	54	54	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.0	1048.0	1048.0	1048.0	1048.0
2.5°	1052.9	1045.2	1049.0	1047.1	1043.2
5°	1049.0	1040.3	1045.2	1043.2	1043.2
7.5°	1040.3	1033.6	1037.4	1036.5	1037.4
10°	1029.7	1023.0	1028.8	1028.8	1027.8
12.5°	1015.3	1009.5	1016.3	1016.3	1017.2
15°	998.9	994.1	1000.8	1003.7	1004.7
17.5°	978.7	973.9	982.5	985.4	988.3
20°	955.6	953.6	962.3	965.2	969.1
22.5°	929.6	929.6	938.2	942.1	947.9
25°	903.6	902.6	913.2	919.0	922.8
27.5°	872.7	873.7	887.2	893.0	897.8
30°	840.0	841.9	857.3	864.1	870.8
32.5°	805.3	809.2	826.5	834.2	840.9
35°	769.7	774.5	793.7	802.4	810.1
37.5°	734.0	740.8	761.0	769.7	778.3
40°	696.4	702.2	725.3	735.9	746.5
42.5°	657.9	665.6	688.7	704.2	716.7
45°	618.4	627.1	652.1	671.4	685.9
47.5°	578.9	590.5	614.6	640.6	653.1
50°	539.4	551.0	578.0	606.9	619.4
52.5°	499.0	510.5	541.4	571.2	584.7
55°	460.4	472.0	504.8	537.5	551.0
57.5°	420.0	432.5	469.1	502.8	516.3
60°	380.5	393.0	432.5	468.2	482.6
62.5°	342.0	355.4	396.9	434.4	448.9
65°	302.5	317.9	361.2	400.7	416.1
67.5°	263.9	281.3	326.6	368.0	384.3
70°	225.4	245.6	293.8	336.2	352.6
72.5°	187.8	210.0	261.0	303.4	312.1
75°	151.2	177.2	230.2	250.5	248.5
77.5°	116.6	145.5	195.5	199.4	205.2
80°	84.8	116.6	146.4	154.1	150.3
82.5°	55.9	87.7	105.0	101.1	100.2
85°	31.8	54.9	58.8	53.9	53.9
87.5°	13.5	22.2	19.3	14.4	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)