

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: P260339

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1196.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

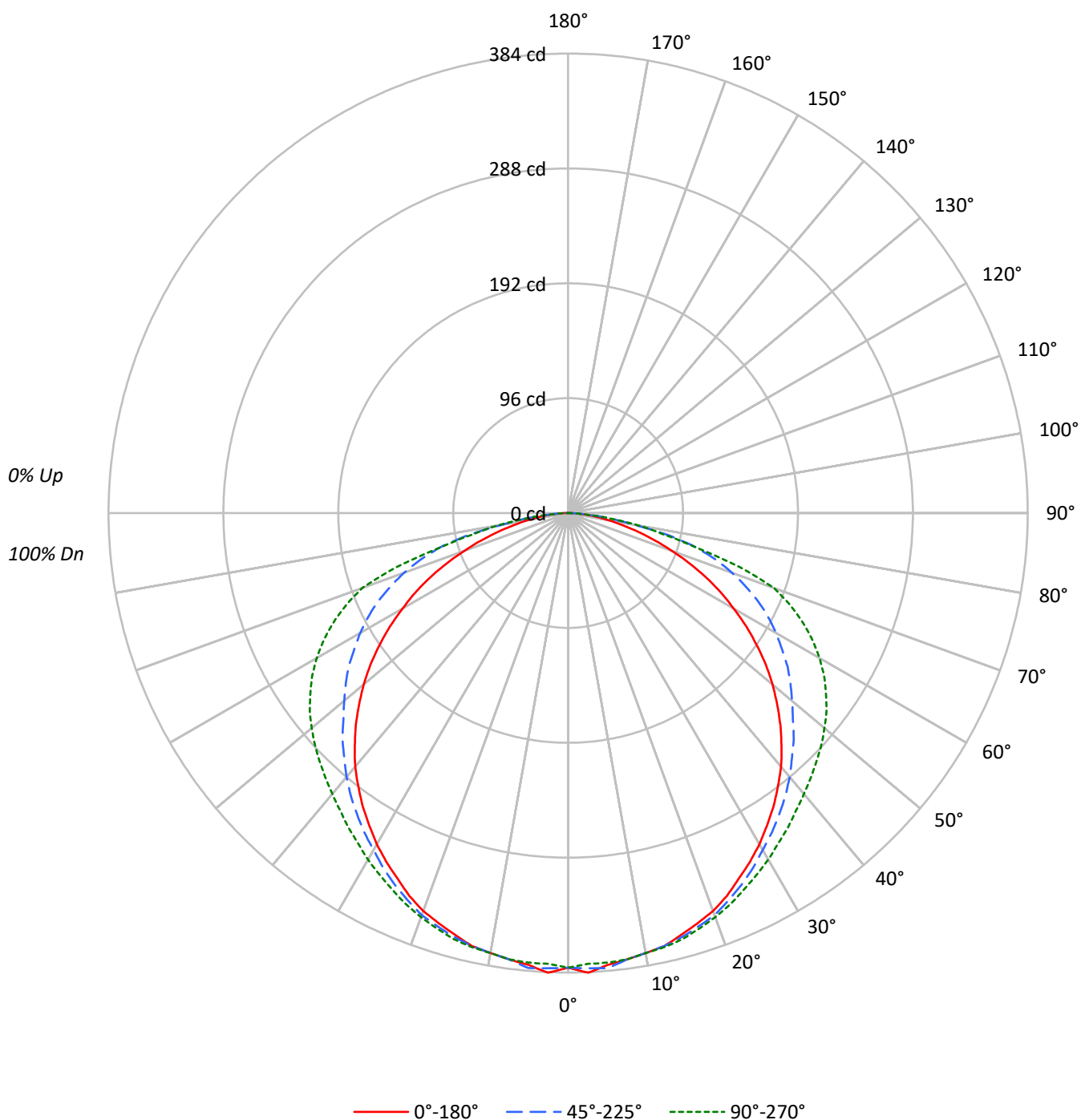
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	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	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41			
6	68	55	45	39	66	54	45	39	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°	1022	1022	1022
5°	1024	1031	1019
10°	1020	1020	1020
15°	1017	1022	1027
20°	1013	1024	1029
25°	1001	1018	1031
30°	993	1010	1039
35°	983	1010	1053
40°	972	1011	1077
45°	954	1015	1117
50°	933	1023	1171
55°	902	1050	1233
60°	860	1080	1305
65°	810	1117	1378
70°	724	1147	1440
75°	628	1149	1140
80°	533	849	921
85°	460	574	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	3.0
10°-20°	103.6	8.7
20°-30°	157.9	13.2
30°-40°	193.1	16.1
40°-50°	207.8	17.4
50°-60°	201.3	16.8
60°-70°	170.5	14.3
70°-80°	103.1	8.6
80°-90°	22.7	1.9
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°	297.5	24.9
0°-40°	490.6	41.0
0°-60°	899.8	75.2
0°-90°	1196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	380	380	380	380	380	
5°	379	379	382	380	377	36
15°	365	366	367	368	369	103
25°	337	339	343	346	347	156
35°	299	301	307	316	320	187
45°	251	255	267	283	294	193
55°	192	201	224	250	263	172
65°	127	141	176	203	216	125
75°	60	82	110	112	110	65
85°	15	18	19	18	17	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	379.9	379.9	379.9	379.9	379.9
2.5°	384.5	383.6	380.8	379.0	377.1
5°	379.0	379.0	381.7	379.9	377.1
7.5°	376.2	376.2	376.2	380.8	376.2
10°	373.4	374.3	373.4	377.1	373.4
12.5°	370.6	370.6	370.6	371.5	371.5
15°	365.0	365.9	366.9	367.8	368.7
17.5°	359.4	360.4	362.2	363.2	364.1
20°	353.9	354.8	357.6	357.6	359.4
22.5°	346.4	346.4	350.2	351.1	353.9
25°	337.2	339.0	342.7	345.5	347.4
27.5°	328.8	330.7	334.4	338.1	340.9
30°	319.5	321.4	325.1	330.7	334.4
32.5°	309.3	311.2	316.7	323.2	326.9
35°	299.1	300.9	307.4	315.8	320.4
37.5°	287.9	290.7	298.1	307.4	313.0
40°	276.8	279.6	287.9	298.1	306.5
42.5°	263.8	267.5	276.8	290.7	300.0
45°	250.8	255.4	266.6	283.3	293.5
47.5°	236.8	241.5	254.5	275.9	287.0
50°	222.9	228.5	244.3	267.5	279.6
52.5°	208.1	213.6	234.1	259.1	272.1
55°	192.3	200.6	223.8	249.8	262.9
57.5°	176.5	185.8	211.8	239.6	253.6
60°	159.8	170.9	200.6	228.5	242.4
62.5°	144.0	156.0	188.5	216.4	230.3
65°	127.2	141.2	175.5	203.4	216.4
67.5°	109.6	127.2	160.7	187.6	200.6
70°	92.0	112.4	145.8	170.9	183.0
72.5°	76.2	97.5	129.1	150.5	150.5
75°	60.4	81.7	110.5	112.4	109.6
77.5°	46.4	66.9	86.4	78.9	80.8
80°	34.4	51.1	54.8	57.6	59.4
82.5°	23.2	34.4	35.3	37.2	37.2
85°	14.9	17.6	18.6	17.6	16.7
87.5°	6.5	7.4	5.6	3.7	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)