

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: P259473

Luminaire Tested: **22CZ-LD5-39-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3792.0 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

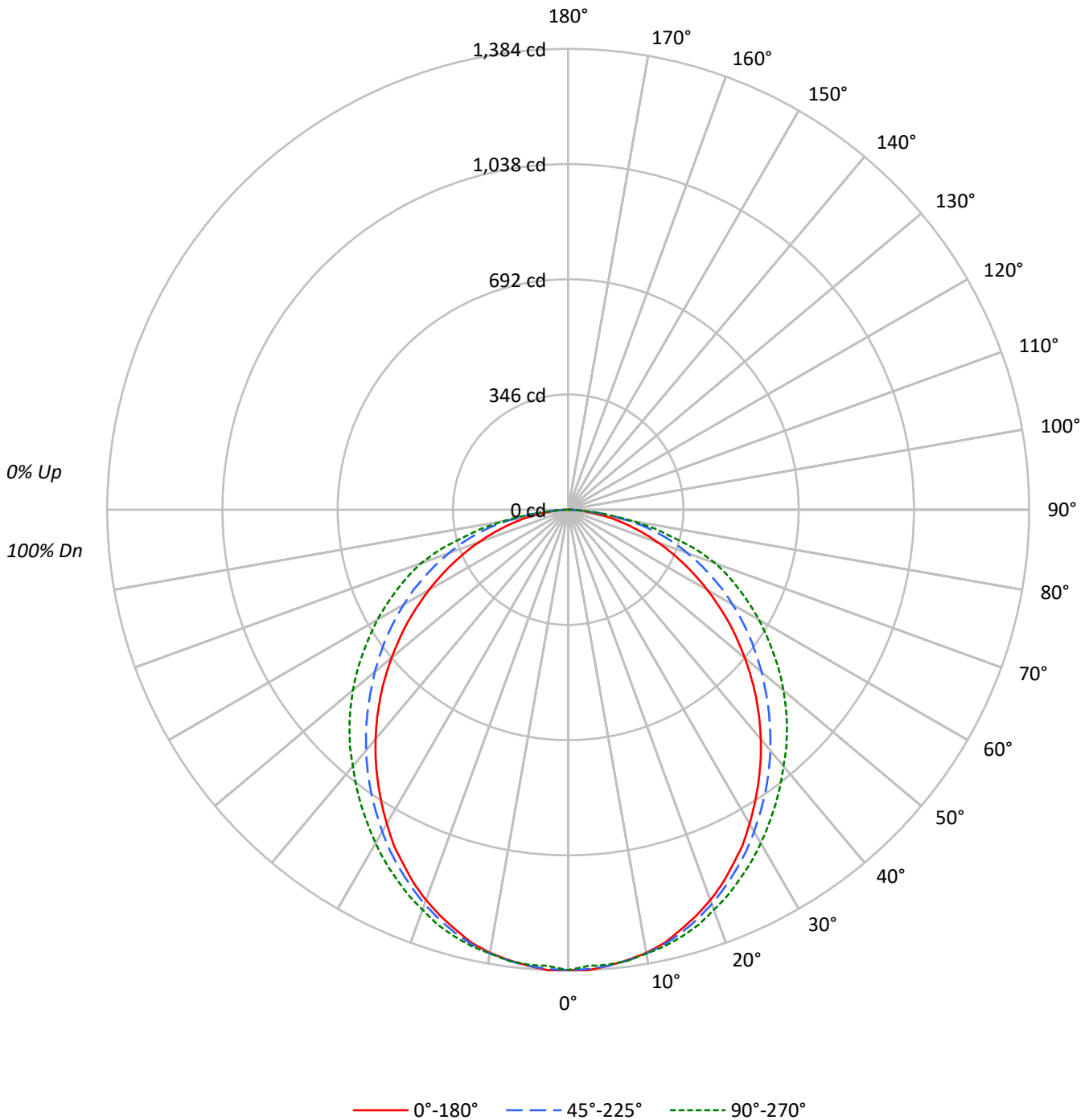
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	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	36	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	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3720	3720	3720
5°	3714	3714	3705
10°	3693	3698	3698
15°	3638	3663	3694
20°	3573	3609	3662
25°	3483	3542	3629
30°	3384	3469	3594
35°	3273	3393	3560
40°	3160	3314	3532
45°	3036	3237	3535
50°	2897	3172	3530
55°	2760	3119	3529
60°	2598	3068	3559
65°	2436	3027	3606
70°	2250	2995	3697
75°	2026	2974	3428
80°	1777	2766	2992
85°	1463	2081	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.4
10°-20°	370.8	9.8
20°-30°	550.8	14.5
30°-40°	648.3	17.1
40°-50°	661.0	17.4
50°-60°	596.1	15.7
60°-70°	469.6	12.4
70°-80°	289.7	7.6
80°-90°	75.2	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°	1052.2	27.7
0°-40°	1700.5	44.8
0°-60°	2957.6	78.0
0°-90°	3792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3792.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1375	1377	1375	1373	1372	131
15°	1306	1311	1315	1322	1326	368
25°	1173	1180	1193	1213	1222	540
35°	996	1007	1033	1066	1084	623
45°	798	810	851	902	929	615
55°	588	608	665	725	752	525
65°	382	410	475	536	566	379
75°	195	228	286	319	330	208
85°	47	60	67	64	60	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.4	1382.4	1382.4	1382.4	1382.4
2.5°	1384.2	1384.2	1380.6	1376.9	1371.5
5°	1375.1	1376.9	1375.1	1373.3	1371.5
7.5°	1364.2	1366.0	1366.0	1366.0	1366.0
10°	1351.4	1353.3	1353.3	1353.3	1353.3
12.5°	1333.2	1335.1	1336.9	1338.7	1342.3
15°	1305.9	1311.4	1315.0	1322.3	1325.9
17.5°	1278.6	1284.1	1289.5	1298.6	1305.9
20°	1247.6	1251.3	1260.4	1271.3	1278.6
22.5°	1213.0	1218.5	1227.6	1242.2	1253.1
25°	1173.0	1180.2	1193.0	1213.0	1222.1
27.5°	1134.7	1140.2	1156.6	1178.4	1191.2
30°	1089.2	1096.5	1116.5	1143.8	1156.6
32.5°	1043.6	1052.7	1074.6	1105.6	1120.1
35°	996.3	1007.2	1032.7	1065.5	1083.7
37.5°	948.9	959.9	989.0	1025.4	1045.5
40°	899.7	910.7	943.5	983.5	1005.4
42.5°	848.8	861.5	897.9	943.5	969.0
45°	797.8	810.5	850.6	901.6	928.9
47.5°	744.9	759.5	803.2	859.7	887.0
50°	692.1	708.5	757.7	816.0	843.3
52.5°	639.3	657.5	710.3	770.4	799.6
55°	588.3	608.3	664.8	724.9	752.2
57.5°	533.7	557.3	617.4	675.7	706.7
60°	482.7	508.2	570.1	628.4	661.2
62.5°	431.7	459.0	524.6	582.8	613.8
65°	382.5	409.8	475.4	535.5	566.4
67.5°	333.3	364.3	428.0	488.1	519.1
70°	286.0	318.7	380.7	438.9	469.9
72.5°	240.4	273.2	335.1	389.8	408.0
75°	194.9	227.7	286.0	318.7	329.7
77.5°	153.0	184.0	235.0	255.0	269.6
80°	114.7	142.1	178.5	191.2	193.1
82.5°	78.3	102.0	123.9	125.7	123.9
85°	47.4	60.1	67.4	63.7	60.1
87.5°	21.9	23.7	21.9	14.6	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)