

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: P259536

Luminaire Tested: **22CZ-LD5-44-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259536
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-LD5-44-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3672.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

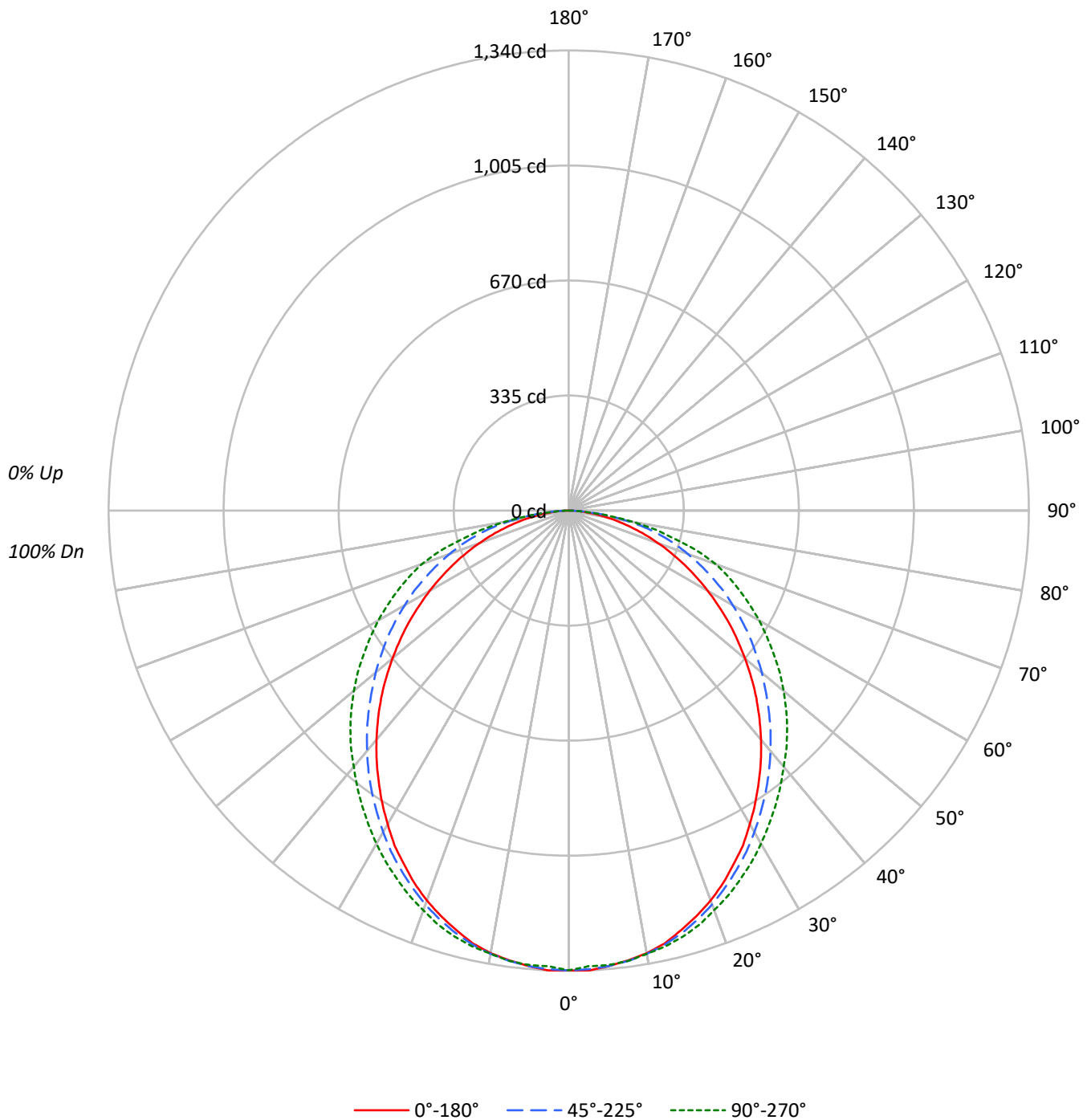
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	34	29		39
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3602	3602	3602
5°	3597	3597	3588
10°	3576	3581	3581
15°	3523	3548	3577
20°	3460	3495	3546
25°	3372	3430	3514
30°	3277	3360	3480
35°	3169	3285	3447
40°	3061	3209	3420
45°	2940	3135	3423
50°	2806	3072	3419
55°	2673	3020	3417
60°	2516	2971	3446
65°	2358	2931	3493
70°	2179	2900	3580
75°	1962	2879	3319
80°	1722	2678	2898
85°	1417	2016	1797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	3.4
10°-20°	359.1	9.8
20°-30°	533.4	14.5
30°-40°	627.8	17.1
40°-50°	640.1	17.4
50°-60°	577.3	15.7
60°-70°	454.7	12.4
70°-80°	280.5	7.6
80°-90°	72.8	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°	1018.9	27.7
0°-40°	1646.7	44.8
0°-60°	2864.0	78.0
0°-90°	3672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1332	1333	1332	1330	1328	126
15°	1265	1270	1273	1280	1284	357
25°	1136	1143	1155	1175	1184	523
35°	965	975	1000	1032	1049	604
45°	772	785	824	873	900	595
55°	570	589	644	702	728	508
65°	370	397	460	518	548	367
75°	189	220	277	309	319	201
85°	46	58	65	62	58	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.7	1338.7	1338.7	1338.7	1338.7
2.5°	1340.4	1340.4	1336.9	1333.4	1328.1
5°	1331.6	1333.4	1331.6	1329.8	1328.1
7.5°	1321.0	1322.8	1322.8	1322.8	1322.8
10°	1308.7	1310.4	1310.4	1310.4	1310.4
12.5°	1291.0	1292.8	1294.6	1296.3	1299.9
15°	1264.6	1269.9	1273.4	1280.5	1284.0
17.5°	1238.1	1243.4	1248.7	1257.5	1264.6
20°	1208.1	1211.7	1220.5	1231.1	1238.1
22.5°	1174.6	1179.9	1188.7	1202.9	1213.4
25°	1135.8	1142.9	1155.2	1174.6	1183.5
27.5°	1098.8	1104.1	1120.0	1141.1	1153.5
30°	1054.7	1061.8	1081.2	1107.6	1120.0
32.5°	1010.6	1019.4	1040.6	1070.6	1084.7
35°	964.8	975.3	1000.0	1031.8	1049.4
37.5°	918.9	929.5	957.7	993.0	1012.4
40°	871.3	881.9	913.6	952.4	973.6
42.5°	821.9	834.2	869.5	913.6	938.3
45°	772.5	784.9	823.7	873.0	899.5
47.5°	721.4	735.5	777.8	832.5	858.9
50°	670.2	686.1	733.7	790.1	816.6
52.5°	619.1	636.7	687.8	746.1	774.3
55°	569.7	589.1	643.8	702.0	728.4
57.5°	516.8	539.7	597.9	654.3	684.3
60°	467.4	492.1	552.0	608.5	640.2
62.5°	418.0	444.5	508.0	564.4	594.4
65°	370.4	396.8	460.3	518.5	548.5
67.5°	322.8	352.7	414.5	472.7	502.7
70°	276.9	308.7	368.6	425.1	455.0
72.5°	232.8	264.6	324.5	377.4	395.1
75°	188.7	220.5	276.9	308.7	319.2
77.5°	148.2	178.1	227.5	246.9	261.0
80°	111.1	137.6	172.8	185.2	187.0
82.5°	75.8	98.8	119.9	121.7	119.9
85°	45.9	58.2	65.3	61.7	58.2
87.5°	21.2	22.9	21.2	14.1	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)