

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: P259396

Luminaire Tested: **22CZ-LD5-39-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259396
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-L83050-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: 3796.0 lumens
Efficiency: N/A
Efficacy: 126.4 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

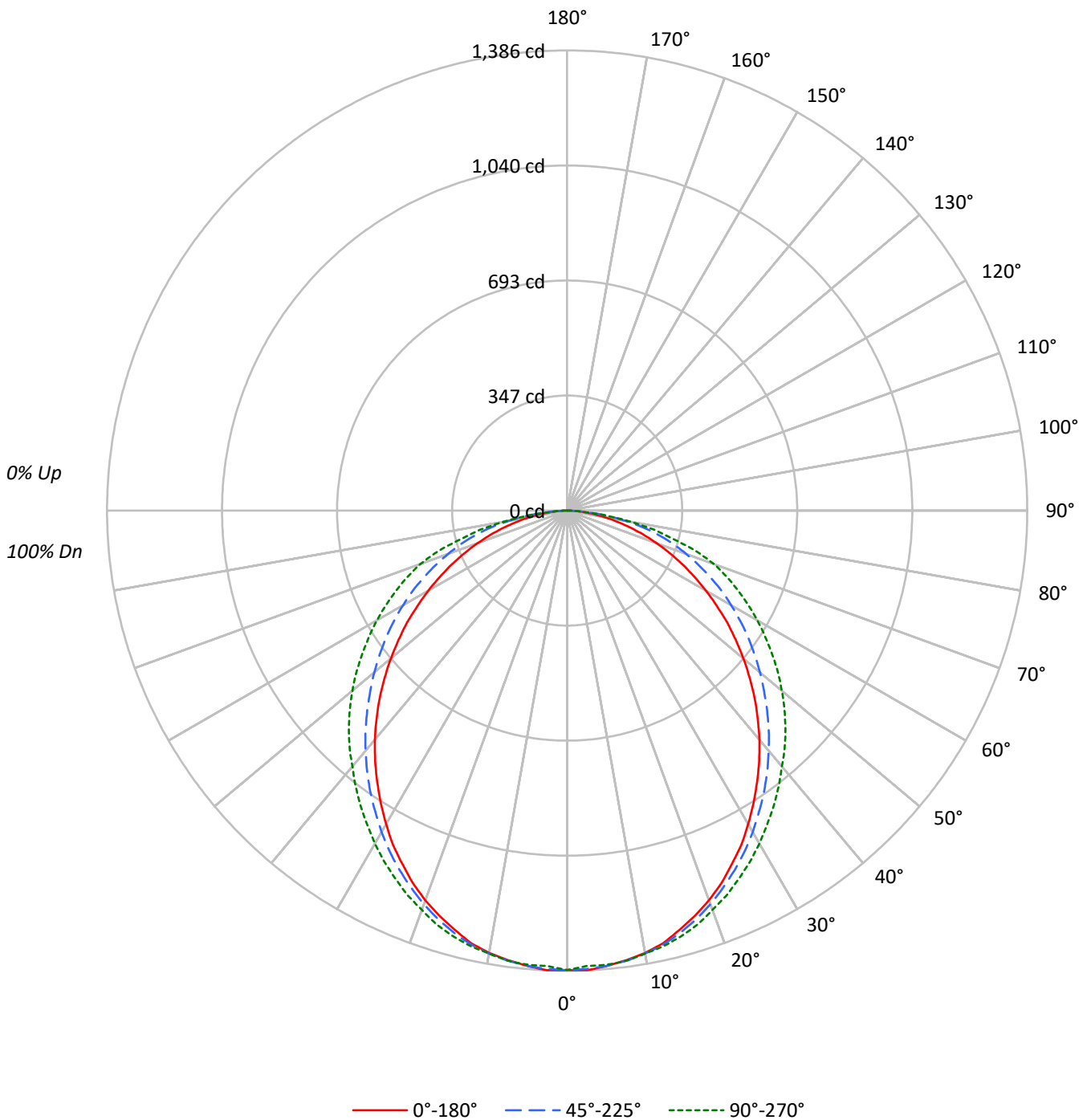
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3724	3724	3724
5°	3719	3719	3709
10°	3697	3702	3702
15°	3642	3667	3698
20°	3576	3613	3665
25°	3486	3546	3632
30°	3388	3473	3598
35°	3276	3396	3564
40°	3164	3318	3535
45°	3039	3240	3539
50°	2900	3175	3534
55°	2763	3122	3533
60°	2601	3071	3562
65°	2438	3030	3610
70°	2253	2998	3701
75°	2028	2977	3431
80°	1781	2769	2996
85°	1463	2084	1859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	3.4
10°-20°	371.2	9.8
20°-30°	551.4	14.5
30°-40°	649.0	17.1
40°-50°	661.7	17.4
50°-60°	596.8	15.7
60°-70°	470.0	12.4
70°-80°	290.0	7.6
80°-90°	75.3	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°	1053.3	27.7
0°-40°	1702.3	44.8
0°-60°	2960.7	78.0
0°-90°	3796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1377	1378	1377	1375	1373	131
15°	1307	1313	1316	1324	1327	369
25°	1174	1182	1194	1214	1223	541
35°	997	1008	1034	1067	1085	624
45°	799	811	852	902	930	616
55°	589	609	666	726	753	526
65°	383	410	476	536	567	379
75°	195	228	286	319	330	208
85°	47	60	68	64	60	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.9	1383.9	1383.9	1383.9	1383.9
2.5°	1385.7	1385.7	1382.0	1378.4	1372.9
5°	1376.6	1378.4	1376.6	1374.8	1372.9
7.5°	1365.6	1367.5	1367.5	1367.5	1367.5
10°	1352.9	1354.7	1354.7	1354.7	1354.7
12.5°	1334.6	1336.5	1338.3	1340.1	1343.8
15°	1307.3	1312.8	1316.4	1323.7	1327.3
17.5°	1279.9	1285.4	1290.9	1300.0	1307.3
20°	1248.9	1252.6	1261.7	1272.6	1279.9
22.5°	1214.3	1219.8	1228.9	1243.5	1254.4
25°	1174.2	1181.5	1194.2	1214.3	1223.4
27.5°	1135.9	1141.4	1157.8	1179.7	1192.4
30°	1090.3	1097.6	1117.7	1145.0	1157.8
32.5°	1044.7	1053.9	1075.7	1106.7	1121.3
35°	997.3	1008.3	1033.8	1066.6	1084.8
37.5°	949.9	960.9	990.0	1026.5	1046.6
40°	900.7	911.6	944.5	984.6	1006.4
42.5°	849.6	862.4	898.9	944.5	970.0
45°	798.6	811.4	851.5	902.5	929.9
47.5°	745.7	760.3	804.1	860.6	887.9
50°	692.8	709.3	758.5	816.8	844.2
52.5°	640.0	658.2	711.1	771.2	800.4
55°	588.9	609.0	665.5	725.7	753.0
57.5°	534.2	557.9	618.1	676.4	707.4
60°	483.2	508.7	570.7	629.0	661.8
62.5°	432.1	459.5	525.1	583.4	614.4
65°	382.9	410.2	475.9	536.0	567.0
67.5°	333.7	364.7	428.5	488.6	519.6
70°	286.3	319.1	381.1	439.4	470.4
72.5°	240.7	273.5	335.5	390.2	408.4
75°	195.1	227.9	286.3	319.1	330.0
77.5°	153.2	184.2	235.2	255.3	269.8
80°	114.9	142.2	178.7	191.4	193.3
82.5°	78.4	102.1	124.0	125.8	124.0
85°	47.4	60.2	67.5	63.8	60.2
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)