

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: P259538

Luminaire Tested: **22CZ-LD5-44-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259538
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3979.9 lumens
Efficiency: N/A
Efficacy: 113.8 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

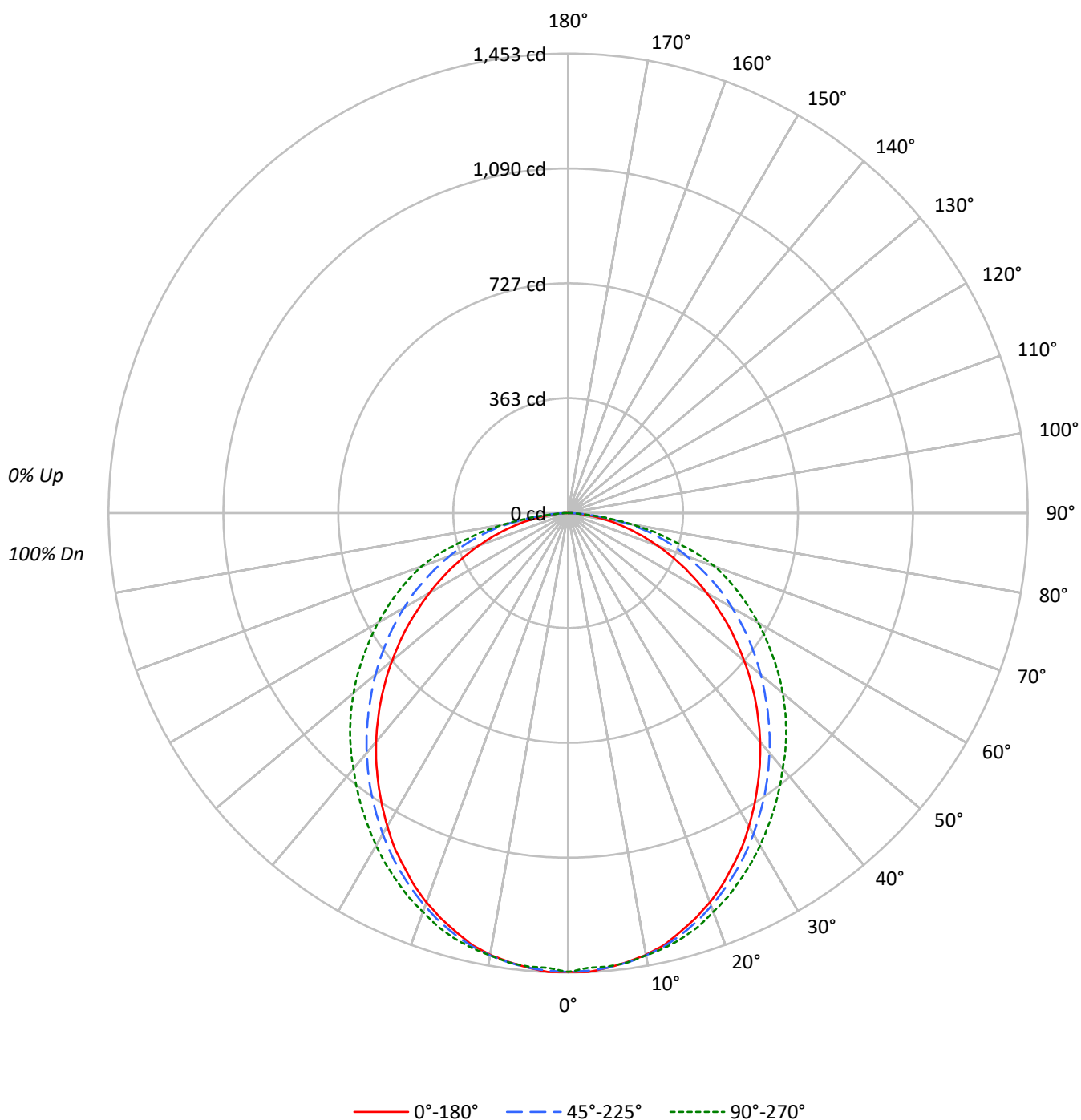
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3904	3904	3904
5°	3899	3899	3888
10°	3876	3881	3881
15°	3819	3845	3877
20°	3750	3788	3843
25°	3655	3718	3809
30°	3552	3641	3772
35°	3435	3561	3736
40°	3318	3478	3707
45°	3186	3397	3710
50°	3041	3329	3705
55°	2897	3274	3704
60°	2726	3220	3735
65°	2556	3177	3785
70°	2361	3143	3880
75°	2126	3120	3597
80°	1866	2903	3140
85°	1535	2183	1948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.4
10°-20°	389.2	9.8
20°-30°	578.1	14.5
30°-40°	680.5	17.1
40°-50°	693.7	17.4
50°-60°	625.7	15.7
60°-70°	492.8	12.4
70°-80°	304.0	7.6
80°-90°	78.9	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°	1104.4	27.7
0°-40°	1784.8	44.8
0°-60°	3104.2	78.0
0°-90°	3979.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3979.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1443	1445	1443	1441	1440	137
15°	1371	1376	1380	1388	1392	386
25°	1231	1239	1252	1273	1283	567
35°	1046	1057	1084	1118	1137	654
45°	837	851	893	946	975	645
55°	618	638	698	761	790	551
65°	401	430	499	562	594	398
75°	204	239	300	334	346	218
85°	50	63	71	67	63	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.9	1450.9	1450.9	1450.9	1450.9
2.5°	1452.9	1452.9	1449.0	1445.2	1439.5
5°	1443.3	1445.2	1443.3	1441.4	1439.5
7.5°	1431.8	1433.7	1433.7	1433.7	1433.7
10°	1418.4	1420.4	1420.4	1420.4	1420.4
12.5°	1399.3	1401.2	1403.2	1405.1	1408.9
15°	1370.7	1376.4	1380.2	1387.9	1391.7
17.5°	1342.0	1347.7	1353.5	1363.0	1370.7
20°	1309.5	1313.3	1322.9	1334.3	1342.0
22.5°	1273.2	1278.9	1288.5	1303.7	1315.2
25°	1231.1	1238.8	1252.1	1273.2	1282.7
27.5°	1191.0	1196.7	1213.9	1236.8	1250.2
30°	1143.2	1150.8	1171.8	1200.5	1213.9
32.5°	1095.4	1104.9	1127.9	1160.4	1175.7
35°	1045.7	1057.1	1083.9	1118.3	1137.4
37.5°	996.0	1007.4	1038.0	1076.3	1097.3
40°	944.4	955.8	990.2	1032.3	1055.2
42.5°	890.8	904.2	942.4	990.2	1017.0
45°	837.3	850.7	892.7	946.3	974.9
47.5°	781.9	797.2	843.0	902.3	931.0
50°	726.4	743.6	795.2	856.4	885.1
52.5°	671.0	690.1	745.5	808.6	839.2
55°	617.5	638.5	697.8	760.8	789.5
57.5°	560.1	585.0	648.1	709.2	741.7
60°	506.6	533.4	598.3	659.5	693.9
62.5°	453.1	481.7	550.6	611.7	644.2
65°	401.4	430.1	498.9	562.0	594.5
67.5°	349.8	382.3	449.2	512.3	544.8
70°	300.1	334.5	399.5	460.7	493.2
72.5°	252.3	286.7	351.7	409.1	428.2
75°	204.5	239.0	300.1	334.5	346.0
77.5°	160.6	193.1	246.6	267.6	282.9
80°	120.4	149.1	187.3	200.7	202.6
82.5°	82.2	107.1	130.0	131.9	130.0
85°	49.7	63.1	70.7	66.9	63.1
87.5°	22.9	24.9	22.9	15.3	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)