

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: P259479

Luminaire Tested: **22CZ-LD5-39-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259479
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4188.0 lumens
Efficiency: N/A
Efficacy: 135.2 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

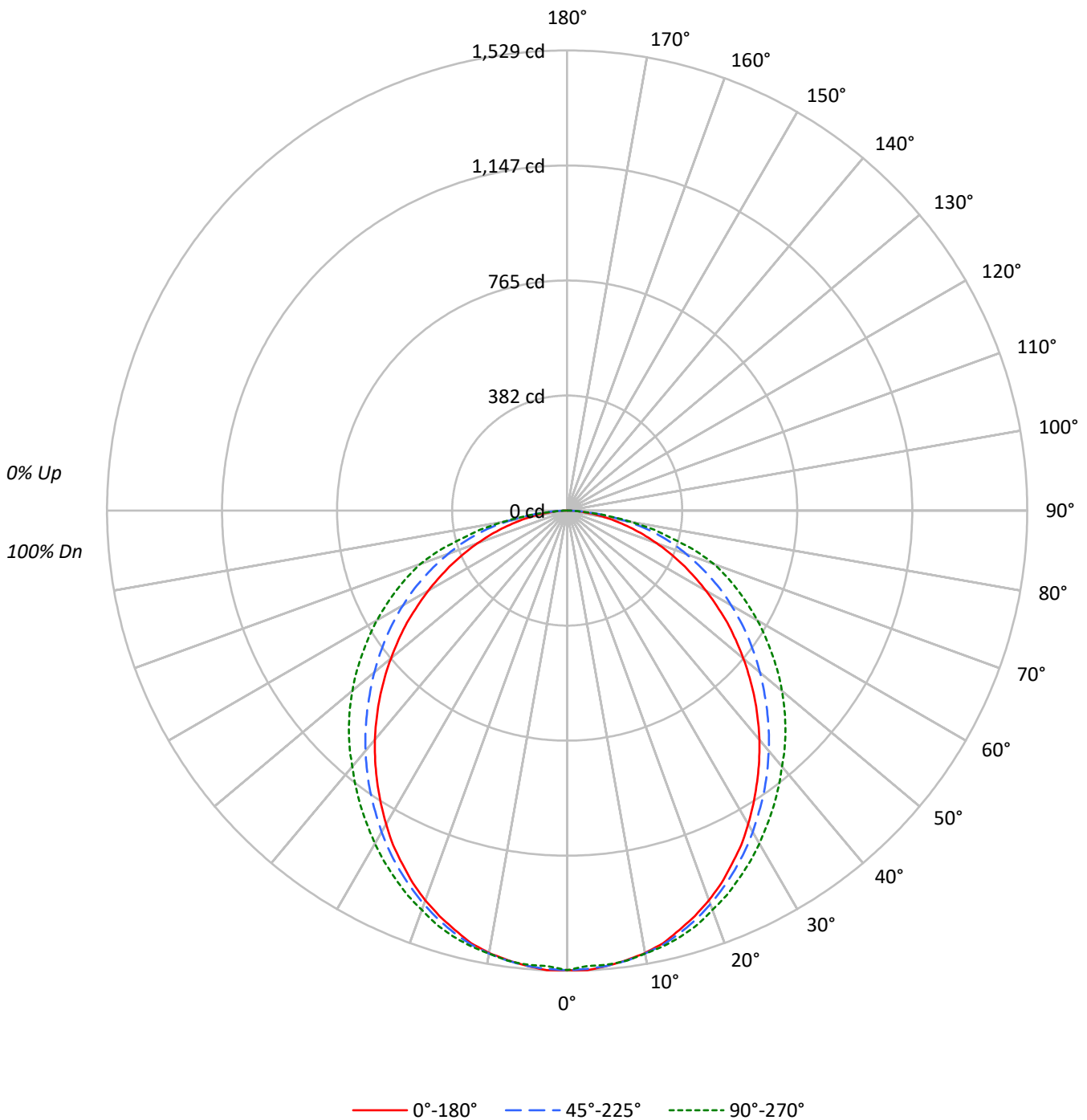
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4109	4109	4109
5°	4102	4102	4092
10°	4079	4084	4084
15°	4018	4046	4080
20°	3946	3986	4044
25°	3846	3912	4008
30°	3738	3832	3969
35°	3615	3747	3932
40°	3491	3660	3901
45°	3353	3575	3904
50°	3200	3503	3899
55°	3048	3445	3898
60°	2869	3388	3930
65°	2690	3343	3983
70°	2485	3308	4083
75°	2237	3283	3786
80°	1963	3054	3304
85°	1615	2297	2050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	3.4
10°-20°	409.6	9.8
20°-30°	608.3	14.5
30°-40°	716.0	17.1
40°-50°	730.0	17.4
50°-60°	658.4	15.7
60°-70°	518.6	12.4
70°-80°	319.9	7.6
80°-90°	83.0	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°	1162.1	27.7
0°-40°	1878.1	44.8
0°-60°	3266.5	78.0
0°-90°	4188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1527	1527	1527	1527	1527	
5°	1519	1521	1519	1517	1515	144
15°	1442	1448	1452	1460	1464	407
25°	1295	1304	1318	1340	1350	597
35°	1100	1112	1141	1177	1197	688
45°	881	895	939	996	1026	679
55°	650	672	734	801	831	580
65°	422	453	525	591	626	418
75°	215	251	316	352	364	230
85°	52	66	74	70	66	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1526.8	1526.8	1526.8	1526.8	1526.8
2.5°	1528.8	1528.8	1524.8	1520.7	1514.7
5°	1518.7	1520.7	1518.7	1516.7	1514.7
7.5°	1506.7	1508.7	1508.7	1508.7	1508.7
10°	1492.6	1494.6	1494.6	1494.6	1494.6
12.5°	1472.5	1474.5	1476.5	1478.5	1482.5
15°	1442.3	1448.3	1452.3	1460.4	1464.4
17.5°	1412.1	1418.1	1424.2	1434.2	1442.3
20°	1377.9	1381.9	1392.0	1404.1	1412.1
22.5°	1339.7	1345.7	1355.8	1371.9	1384.0
25°	1295.4	1303.5	1317.6	1339.7	1349.8
27.5°	1253.2	1259.2	1277.3	1301.5	1315.6
30°	1202.9	1211.0	1233.1	1263.3	1277.3
32.5°	1152.6	1162.7	1186.8	1221.0	1237.1
35°	1100.3	1112.4	1140.6	1176.8	1196.9
37.5°	1048.0	1060.1	1092.3	1132.5	1154.6
40°	993.7	1005.8	1042.0	1086.2	1110.4
42.5°	937.4	951.5	991.7	1042.0	1070.1
45°	881.1	895.1	939.4	995.7	1025.9
47.5°	822.7	838.8	887.1	949.5	979.6
50°	764.4	782.5	836.8	901.2	931.4
52.5°	706.1	726.2	784.5	850.9	883.1
55°	649.7	671.9	734.2	800.6	830.8
57.5°	589.4	615.5	681.9	746.3	780.5
60°	533.1	561.2	629.6	694.0	730.2
62.5°	476.7	506.9	579.3	643.7	677.9
65°	422.4	452.6	525.0	591.4	625.6
67.5°	368.1	402.3	472.7	539.1	573.3
70°	315.8	352.0	420.4	484.8	519.0
72.5°	265.5	301.7	370.1	430.5	450.6
75°	215.2	251.4	315.8	352.0	364.1
77.5°	169.0	203.2	259.5	281.6	297.7
80°	126.7	156.9	197.1	211.2	213.2
82.5°	86.5	112.6	136.8	138.8	136.8
85°	52.3	66.4	74.4	70.4	66.4
87.5°	24.1	26.2	24.1	16.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)