

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: P259524

Luminaire Tested: **22CZ-LD5-34-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259524
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-LD5-34-S-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3304.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

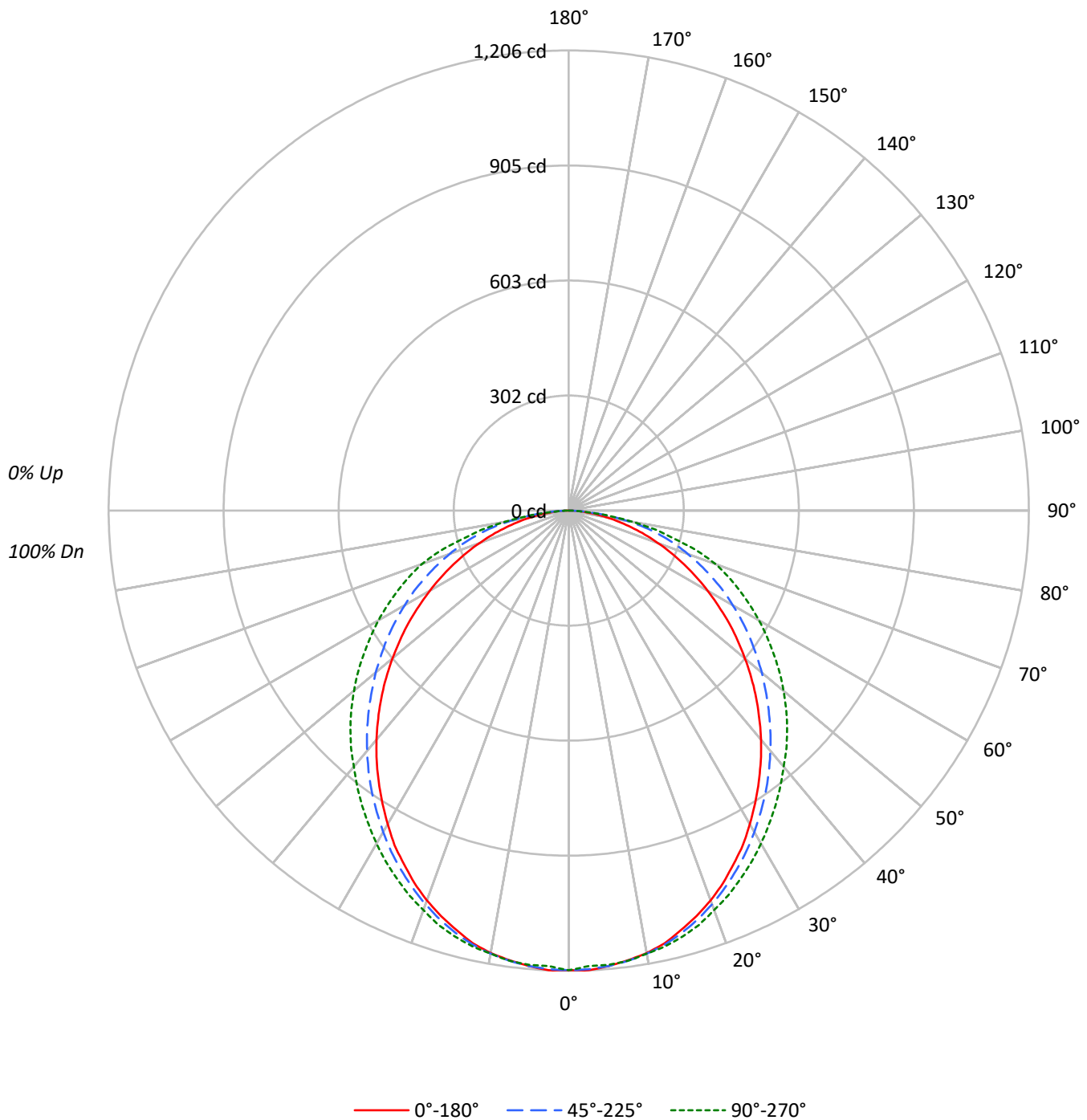
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259524

CATALOG NUMBER: 22CZ-LD5-34-S-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P259524

CATALOG NUMBER: 22CZ-LD5-34-S-UNV-L92765-W2A1-U-5700K

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°	3241	3241	3241
5°	3237	3237	3228
10°	3218	3222	3222
15°	3170	3192	3219
20°	3113	3145	3190
25°	3034	3086	3162
30°	2949	3023	3131
35°	2852	2956	3102
40°	2754	2888	3077
45°	2645	2820	3080
50°	2524	2764	3076
55°	2405	2717	3075
60°	2263	2673	3101
65°	2122	2637	3142
70°	1961	2610	3221
75°	1765	2591	2986
80°	1550	2410	2607
85°	1275	1812	1618



TEST NUMBER: P259524

CATALOG NUMBER: 22CZ-LD5-34-S-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	3.4
10°-20°	323.1	9.8
20°-30°	479.9	14.5
30°-40°	564.9	17.1
40°-50°	575.9	17.4
50°-60°	519.4	15.7
60°-70°	409.1	12.4
70°-80°	252.4	7.6
80°-90°	65.5	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°	916.8	27.7
0°-40°	1481.7	44.8
0°-60°	2577.0	78.0
0°-90°	3304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1198	1200	1198	1197	1195	114
15°	1138	1143	1146	1152	1155	321
25°	1022	1028	1040	1057	1065	471
35°	868	878	900	928	944	543
45°	695	706	741	786	809	536
55°	513	530	579	632	655	457
65°	333	357	414	467	494	330
75°	170	198	249	278	287	181
85°	41	52	59	56	52	49
90°	0	0	0	0	0	



TEST NUMBER: P259524

CATALOG NUMBER: 22CZ-LD5-34-S-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.5	1204.5	1204.5	1204.5	1204.5
2.5°	1206.1	1206.1	1202.9	1199.7	1195.0
5°	1198.2	1199.7	1198.2	1196.6	1195.0
7.5°	1188.6	1190.2	1190.2	1190.2	1190.2
10°	1177.5	1179.1	1179.1	1179.1	1179.1
12.5°	1161.7	1163.2	1164.8	1166.4	1169.6
15°	1137.9	1142.6	1145.8	1152.1	1155.3
17.5°	1114.0	1118.8	1123.6	1131.5	1137.9
20°	1087.1	1090.2	1098.2	1107.7	1114.0
22.5°	1056.9	1061.7	1069.6	1082.3	1091.8
25°	1022.0	1028.4	1039.5	1056.9	1064.9
27.5°	988.7	993.4	1007.7	1026.8	1037.9
30°	949.0	955.4	972.8	996.6	1007.7
32.5°	909.3	917.3	936.3	963.3	976.0
35°	868.1	877.6	899.8	928.4	944.2
37.5°	826.8	836.3	861.7	893.5	910.9
40°	784.0	793.5	822.0	857.0	876.0
42.5°	739.5	750.6	782.4	822.0	844.3
45°	695.1	706.2	741.1	785.5	809.4
47.5°	649.1	661.8	699.8	749.0	772.9
50°	603.0	617.3	660.2	711.0	734.8
52.5°	557.0	572.9	618.9	671.3	696.7
55°	512.6	530.0	579.2	631.6	655.4
57.5°	465.0	485.6	538.0	588.8	615.7
60°	420.5	442.8	496.7	547.5	576.1
62.5°	376.1	399.9	457.0	507.8	534.8
65°	333.3	357.1	414.2	466.6	493.5
67.5°	290.4	317.4	372.9	425.3	452.3
70°	249.2	277.7	331.7	382.5	409.4
72.5°	209.5	238.0	292.0	339.6	355.5
75°	169.8	198.4	249.2	277.7	287.2
77.5°	133.3	160.3	204.7	222.2	234.9
80°	100.0	123.8	155.5	166.6	168.2
82.5°	68.2	88.9	107.9	109.5	107.9
85°	41.3	52.4	58.7	55.5	52.4
87.5°	19.0	20.6	19.0	12.7	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)