

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: P259468

Luminaire Tested: **22CZ-LD5-34-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259468
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-L82765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3609.0 lumens
Efficiency: N/A
Efficacy: 137.6 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

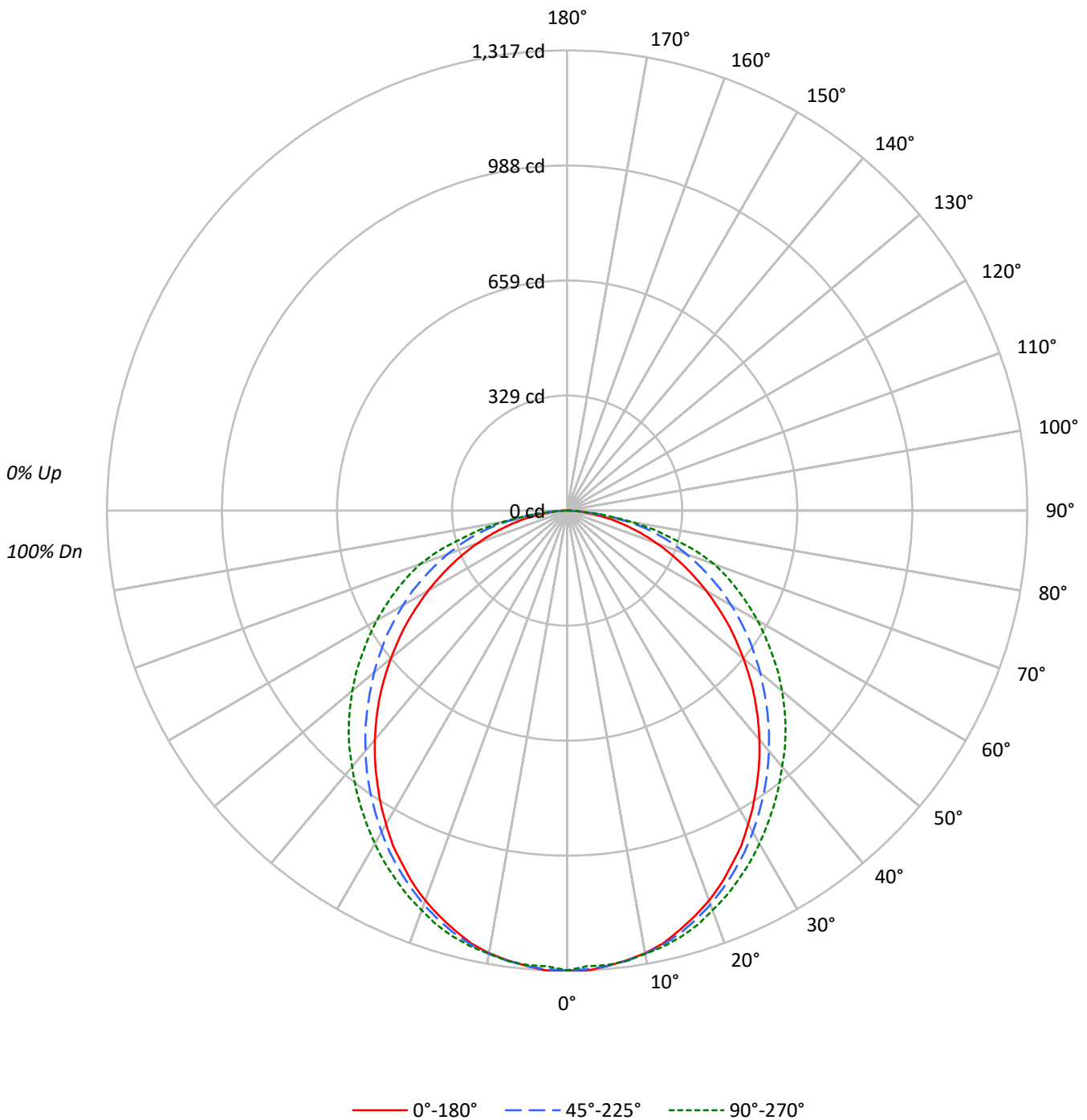
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58					58			
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3541	3541	3541
5°	3535	3535	3526
10°	3515	3519	3519
15°	3463	3487	3516
20°	3400	3435	3485
25°	3314	3371	3453
30°	3221	3302	3420
35°	3115	3229	3388
40°	3008	3154	3361
45°	2890	3081	3365
50°	2758	3019	3360
55°	2627	2968	3359
60°	2472	2920	3386
65°	2318	2881	3433
70°	2142	2851	3519
75°	1929	2830	3263
80°	1692	2633	2847
85°	1392	1979	1766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	3.4
10°-20°	353.0	9.8
20°-30°	524.2	14.5
30°-40°	617.0	17.1
40°-50°	629.1	17.4
50°-60°	567.3	15.7
60°-70°	446.9	12.4
70°-80°	275.7	7.6
80°-90°	71.6	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°	1001.4	27.7
0°-40°	1618.5	44.8
0°-60°	2814.9	78.0
0°-90°	3609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1309	1310	1309	1307	1305	124
15°	1243	1248	1252	1258	1262	350
25°	1116	1123	1135	1154	1163	514
35°	948	959	983	1014	1031	593
45°	759	771	810	858	884	585
55°	560	579	633	690	716	500
65°	364	390	452	510	539	361
75°	186	217	272	303	314	198
85°	45	57	64	61	57	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1315.7	1315.7	1315.7	1315.7	1315.7
2.5°	1317.4	1317.4	1314.0	1310.5	1305.3
5°	1308.8	1310.5	1308.8	1307.0	1305.3
7.5°	1298.4	1300.1	1300.1	1300.1	1300.1
10°	1286.2	1288.0	1288.0	1288.0	1288.0
12.5°	1268.9	1270.6	1272.4	1274.1	1277.6
15°	1242.9	1248.1	1251.6	1258.5	1262.0
17.5°	1216.9	1222.1	1227.3	1236.0	1242.9
20°	1187.4	1190.9	1199.6	1210.0	1216.9
22.5°	1154.5	1159.7	1168.4	1182.2	1192.6
25°	1116.3	1123.3	1135.4	1154.5	1163.1
27.5°	1079.9	1085.1	1100.7	1121.5	1133.7
30°	1036.6	1043.5	1062.6	1088.6	1100.7
32.5°	993.3	1001.9	1022.7	1052.2	1066.1
35°	948.2	958.6	982.9	1014.1	1031.4
37.5°	903.1	913.5	941.3	975.9	995.0
40°	856.3	866.7	897.9	936.1	956.9
42.5°	807.8	819.9	854.6	897.9	922.2
45°	759.3	771.4	809.5	858.1	884.1
47.5°	709.0	722.9	764.5	818.2	844.2
50°	658.7	674.3	721.1	776.6	802.6
52.5°	608.4	625.8	676.0	733.3	761.0
55°	559.9	579.0	632.7	689.9	715.9
57.5°	507.9	530.4	587.6	643.1	672.6
60°	459.4	483.6	542.6	598.0	629.2
62.5°	410.8	436.8	499.2	554.7	584.2
65°	364.0	390.0	452.4	509.6	539.1
67.5°	317.2	346.7	407.4	464.6	494.0
70°	272.2	303.4	362.3	417.8	447.2
72.5°	228.8	260.0	319.0	371.0	388.3
75°	185.5	216.7	272.2	303.4	313.8
77.5°	145.6	175.1	223.6	242.7	256.6
80°	109.2	135.2	169.9	182.0	183.7
82.5°	74.5	97.1	117.9	119.6	117.9
85°	45.1	57.2	64.1	60.7	57.2
87.5°	20.8	22.5	20.8	13.9	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)