

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: P277236

Luminaire Tested: **22CZ2-29HE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2762.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

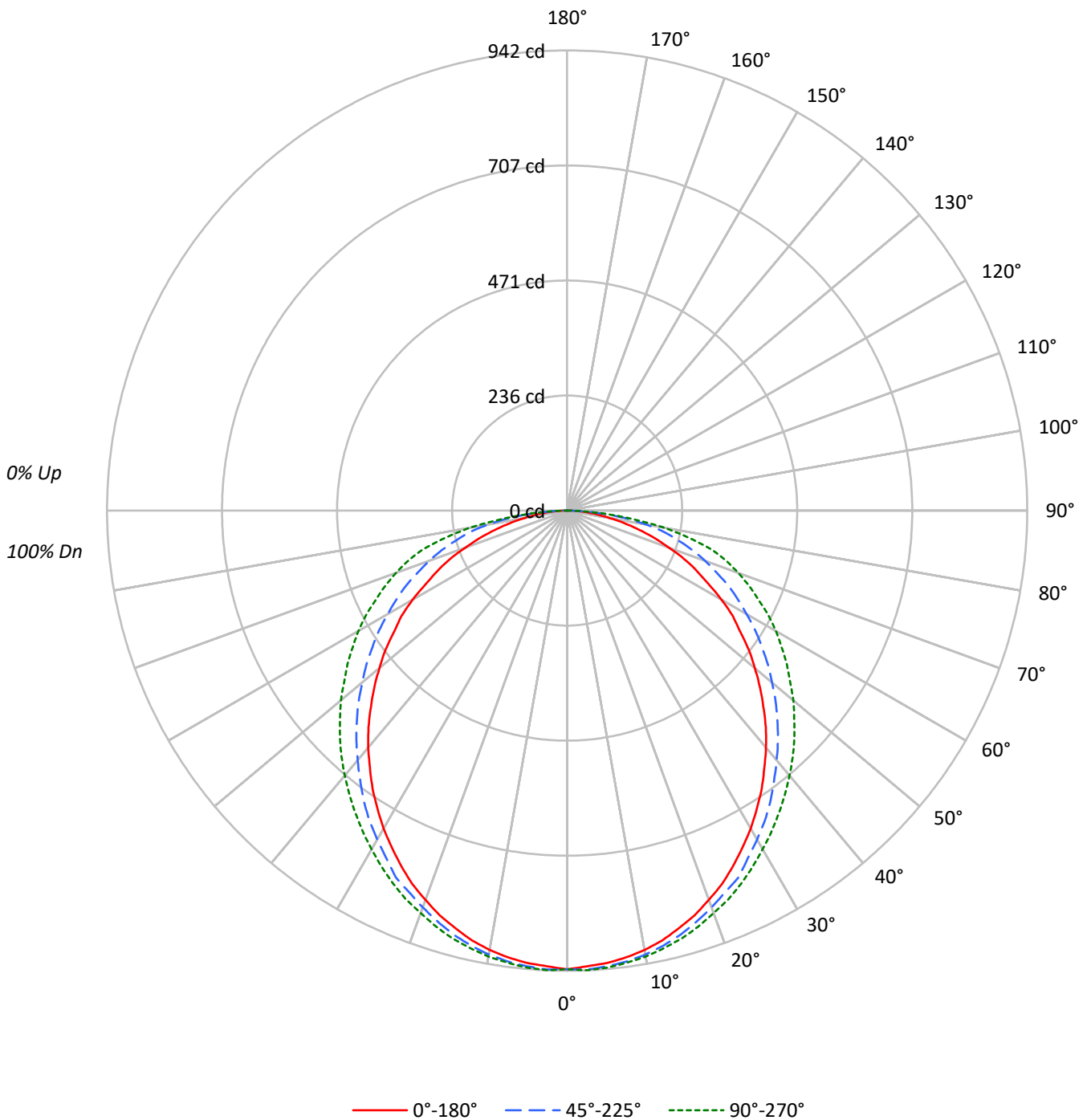
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277236

CATALOG NUMBER: 22CZ2-29HE-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P277236

CATALOG NUMBER: 22CZ2-29HE-UNV-L82765-W2A1-U-5500K

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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82					82			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68					68			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56					56			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48					48			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41					41			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28					28			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2527	2527	2527
5°	2511	2529	2537
10°	2496	2522	2533
15°	2465	2503	2525
20°	2429	2475	2510
25°	2385	2461	2502
30°	2335	2416	2487
35°	2281	2384	2483
40°	2225	2344	2487
45°	2162	2317	2503
50°	2099	2293	2532
55°	2028	2283	2576
60°	1968	2282	2655
65°	1869	2319	2752
70°	1743	2364	2930
75°	1597	2444	3165
80°	1390	2548	3116
85°	1216	2266	2476



TEST NUMBER: P277236

CATALOG NUMBER: 22CZ2-29HE-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	3.2
10°-20°	253.0	9.2
20°-30°	379.8	13.7
30°-40°	453.8	16.4
40°-50°	471.9	17.1
50°-60°	437.3	15.8
60°-70°	358.7	13.0
70°-80°	242.5	8.8
80°-90°	76.2	2.8
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°	721.6	26.1
0°-40°	1175.3	42.6
0°-60°	2084.6	75.5
0°-90°	2762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	930	931	936	938	939	88
15°	885	889	898	904	906	250
25°	803	810	829	839	843	370
35°	694	704	726	748	756	434
45°	568	579	609	644	658	439
55°	432	446	487	530	549	388
65°	294	310	364	412	432	290
75°	154	179	235	283	304	163
85°	39	54	73	82	80	45
90°	0	0	0	0	0	



TEST NUMBER: P277236

CATALOG NUMBER: 22CZ2-29HE-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.1	939.1	939.1	939.1	939.1
2.5°	933.7	936.4	940.5	941.8	941.8
5°	929.6	931.0	936.4	937.8	939.1
7.5°	922.8	925.5	931.0	932.3	933.7
10°	913.3	916.0	922.8	925.5	926.9
12.5°	901.1	903.8	911.9	916.0	917.4
15°	884.8	888.8	898.4	903.8	906.5
17.5°	868.5	872.5	882.0	890.2	892.9
20°	848.1	857.6	864.4	875.3	876.6
22.5°	827.7	833.1	845.4	856.2	861.7
25°	803.2	810.0	829.0	838.6	842.6
27.5°	777.4	786.9	801.9	816.8	822.2
30°	751.6	758.4	777.4	795.1	800.5
32.5°	723.0	732.5	752.9	770.6	778.8
35°	694.5	704.0	725.8	747.5	755.7
37.5°	663.2	674.1	695.9	721.7	732.5
40°	633.3	641.5	667.3	698.6	708.1
42.5°	602.1	611.6	638.8	672.7	683.6
45°	568.1	579.0	608.9	644.2	657.8
47.5°	535.5	546.4	579.0	614.3	630.6
50°	501.5	515.1	547.7	588.5	604.8
52.5°	468.9	481.1	517.8	559.9	574.9
55°	432.2	445.8	486.6	530.0	549.1
57.5°	402.3	411.8	456.7	501.5	520.5
60°	365.6	377.8	424.0	471.6	493.3
62.5°	326.2	346.6	394.1	443.1	464.8
65°	293.6	309.9	364.2	411.8	432.2
67.5°	259.6	277.3	330.3	380.5	403.6
70°	221.5	244.6	300.4	350.6	372.4
72.5°	187.6	212.0	269.1	318.0	341.1
75°	153.6	179.4	235.1	282.7	304.4
77.5°	121.0	149.5	203.9	240.6	254.1
80°	89.7	116.9	164.4	190.3	201.1
82.5°	62.5	85.6	121.0	134.5	137.3
85°	39.4	54.4	73.4	81.5	80.2
87.5°	17.7	21.7	27.2	29.9	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)