

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: P277238

Luminaire Tested: **22CZ2-29HE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277238
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-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2776.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

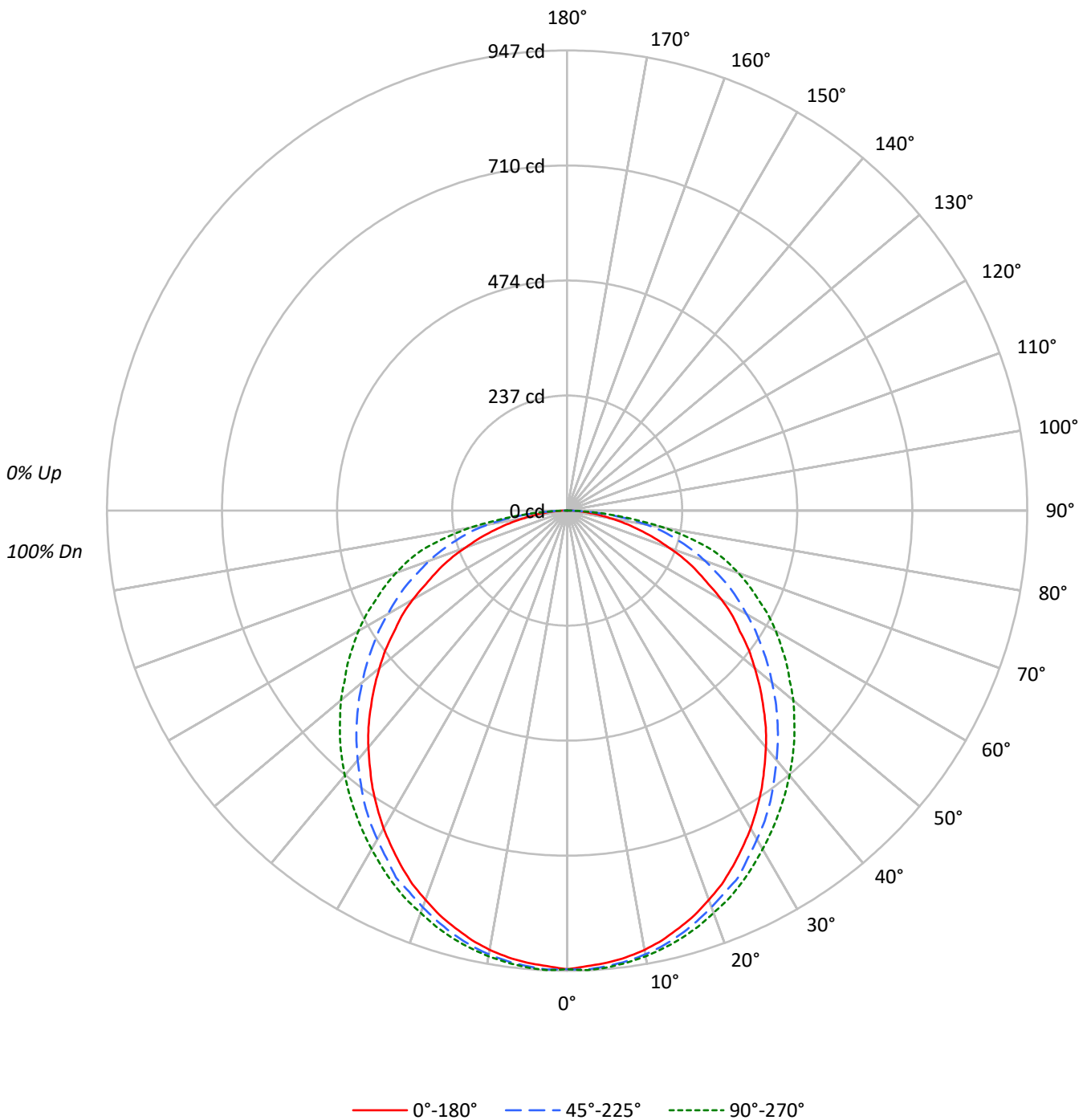
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2540	2540	2540
5°	2524	2542	2550
10°	2508	2534	2546
15°	2478	2515	2538
20°	2441	2488	2523
25°	2397	2474	2515
30°	2347	2428	2500
35°	2293	2396	2495
40°	2236	2356	2500
45°	2173	2329	2516
50°	2110	2305	2545
55°	2038	2294	2589
60°	1977	2294	2669
65°	1879	2331	2766
70°	1752	2375	2945
75°	1605	2457	3182
80°	1398	2562	3133
85°	1223	2279	2489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	3.2
10°-20°	254.3	9.2
20°-30°	381.7	13.7
30°-40°	456.1	16.4
40°-50°	474.3	17.1
50°-60°	439.6	15.8
60°-70°	360.6	13.0
70°-80°	243.7	8.8
80°-90°	76.6	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°	725.2	26.1
0°-40°	1181.3	42.6
0°-60°	2095.1	75.5
0°-90°	2776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	934	936	941	942	944	89
15°	889	893	903	908	911	251
25°	807	814	833	843	847	372
35°	698	708	729	751	760	436
45°	571	582	612	648	661	441
55°	434	448	489	533	552	390
65°	295	311	366	414	434	292
75°	154	180	236	284	306	164
85°	40	55	74	82	81	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.9	943.9	943.9	943.9	943.9
2.5°	938.4	941.2	945.3	946.6	946.6
5°	934.3	935.7	941.2	942.5	943.9
7.5°	927.5	930.2	935.7	937.1	938.4
10°	917.9	920.7	927.5	930.2	931.6
12.5°	905.6	908.4	916.6	920.7	922.0
15°	889.3	893.3	902.9	908.4	911.1
17.5°	872.9	877.0	886.5	894.7	897.4
20°	852.4	861.9	868.8	879.7	881.1
22.5°	831.9	837.3	849.6	860.6	866.0
25°	807.3	814.1	833.2	842.8	846.9
27.5°	781.3	790.9	805.9	821.0	826.4
30°	755.4	762.2	781.3	799.1	804.6
32.5°	726.7	736.3	756.8	774.5	782.7
35°	698.0	707.6	729.4	751.3	759.5
37.5°	666.6	677.5	699.4	725.3	736.3
40°	636.5	644.7	670.7	702.1	711.7
42.5°	605.1	614.7	642.0	676.2	687.1
45°	571.0	581.9	612.0	647.5	661.1
47.5°	538.2	549.1	581.9	617.4	633.8
50°	504.0	517.7	550.5	591.5	607.9
52.5°	471.3	483.6	520.4	562.8	577.8
55°	434.4	448.0	489.0	532.7	551.9
57.5°	404.3	413.9	459.0	504.0	523.2
60°	367.4	379.7	426.2	474.0	495.9
62.5°	327.8	348.3	396.1	445.3	467.2
65°	295.1	311.4	366.1	413.9	434.4
67.5°	260.9	278.7	331.9	382.5	405.7
70°	222.7	245.9	301.9	352.4	374.3
72.5°	188.5	213.1	270.5	319.6	342.9
75°	154.4	180.3	236.3	284.1	306.0
77.5°	121.6	150.3	204.9	241.8	255.4
80°	90.2	117.5	165.3	191.2	202.2
82.5°	62.8	86.1	121.6	135.2	138.0
85°	39.6	54.6	73.8	82.0	80.6
87.5°	17.8	21.9	27.3	30.1	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)