

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: P277458

Luminaire Tested: **22CZ2-29HE-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2629.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

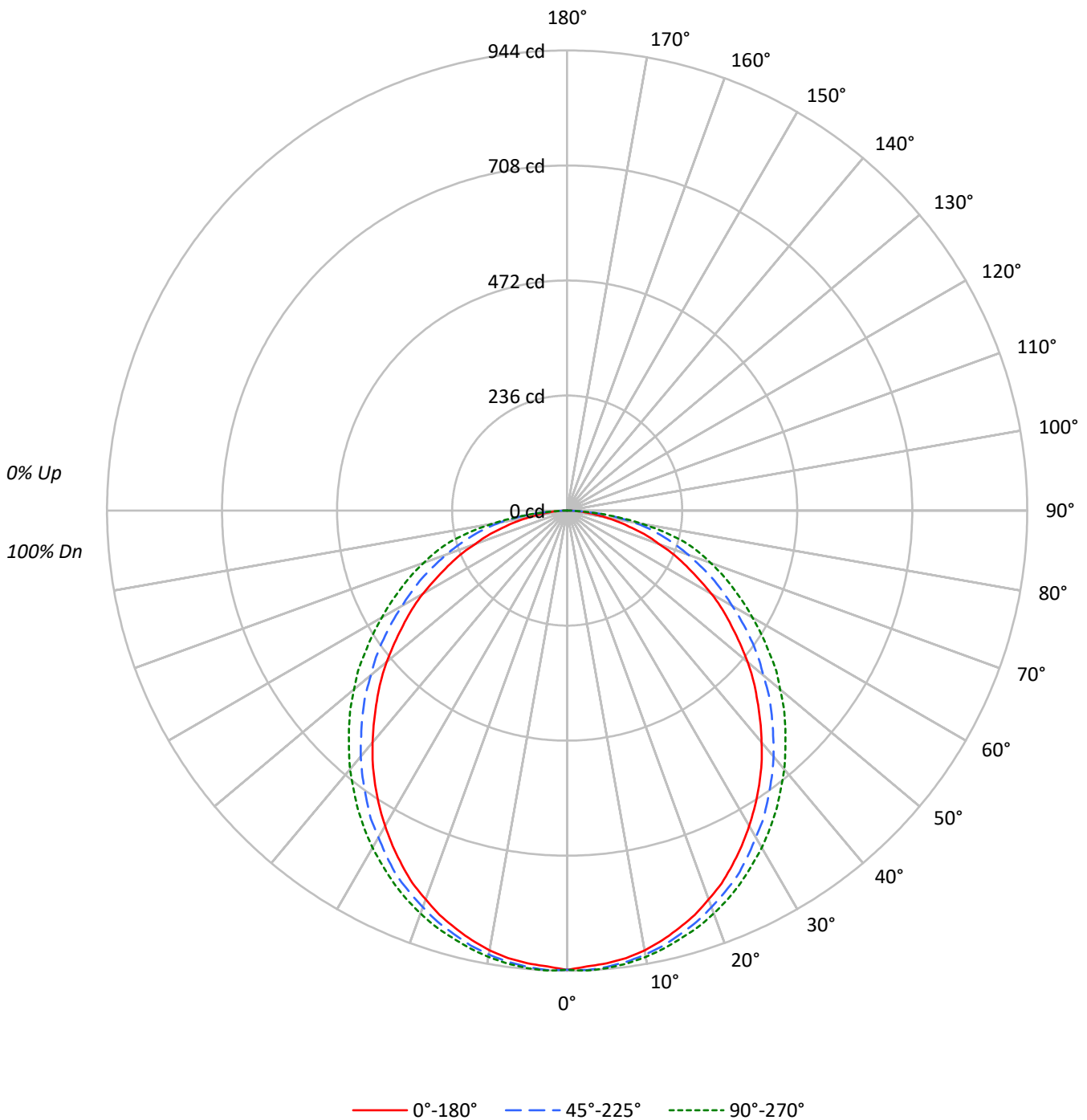
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2535	2535	2535
5°	2518	2538	2545
10°	2504	2527	2541
15°	2471	2505	2529
20°	2431	2480	2519
25°	2382	2455	2502
30°	2321	2405	2481
35°	2257	2361	2458
40°	2180	2314	2434
45°	2101	2259	2409
50°	2023	2198	2388
55°	1928	2158	2371
60°	1842	2106	2363
65°	1719	2093	2390
70°	1583	2075	2461
75°	1429	2104	2589
80°	1235	2166	2433
85°	1022	1819	1819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.4
10°-20°	253.5	9.6
20°-30°	379.3	14.4
30°-40°	449.2	17.1
40°-50°	457.8	17.4
50°-60°	410.3	15.6
60°-70°	321.3	12.2
70°-80°	207.2	7.9
80°-90°	61.2	2.3
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°	722.0	27.5
0°-40°	1171.2	44.5
0°-60°	2039.4	77.6
0°-90°	2629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	932	935	940	941	942	89
15°	887	892	899	906	908	250
25°	802	810	827	838	843	369
35°	687	696	719	741	748	429
45°	552	564	594	624	633	426
55°	411	424	460	492	505	368
65°	270	286	329	361	375	268
75°	137	158	202	237	249	147
85°	33	45	59	59	59	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	942.1	942.1	942.1	942.1	942.1
2.5°	935.9	938.4	943.3	944.5	944.5
5°	932.2	934.7	939.6	940.8	942.1
7.5°	926.1	927.3	933.5	935.9	937.1
10°	916.3	918.7	924.9	928.6	929.8
12.5°	902.8	906.5	913.8	918.7	920.0
15°	886.9	891.8	899.1	906.5	907.7
17.5°	869.7	874.6	884.4	893.0	895.4
20°	848.8	855.0	866.0	875.8	879.5
22.5°	828.0	832.9	846.4	858.6	862.3
25°	802.2	809.6	826.7	837.8	842.7
27.5°	775.2	783.8	801.0	815.7	820.6
30°	747.0	755.6	774.0	792.4	798.5
32.5°	717.6	727.4	749.5	767.9	774.0
35°	686.9	695.5	718.8	740.9	748.2
37.5°	655.0	662.4	689.4	712.7	720.0
40°	620.7	630.5	658.7	685.7	693.0
42.5°	586.3	597.4	625.6	655.0	662.4
45°	552.0	564.3	593.7	624.4	632.9
47.5°	518.9	528.7	561.8	591.2	603.5
50°	483.3	493.1	525.0	558.1	570.4
52.5°	446.5	460.0	494.3	526.2	540.9
55°	410.9	424.4	460.0	491.9	505.4
57.5°	377.8	388.8	425.6	458.8	472.3
60°	342.2	352.0	391.3	426.9	439.1
62.5°	304.2	318.9	359.4	392.5	407.2
65°	269.9	285.8	328.7	360.6	375.3
67.5°	238.0	252.7	294.4	328.7	344.7
70°	201.2	220.8	263.7	298.1	312.8
72.5°	171.7	188.9	233.1	267.4	283.4
75°	137.4	158.2	202.4	236.7	249.0
77.5°	109.2	130.0	171.7	198.7	204.8
80°	79.7	100.6	139.8	153.3	157.0
82.5°	54.0	73.6	100.6	104.3	105.5
85°	33.1	45.4	58.9	58.9	58.9
87.5°	15.9	18.4	20.9	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)