

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: P277289

Luminaire Tested: **22CZ2-29HE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277289
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2456.0 lumens
Efficiency: N/A
Efficacy: 115.3 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

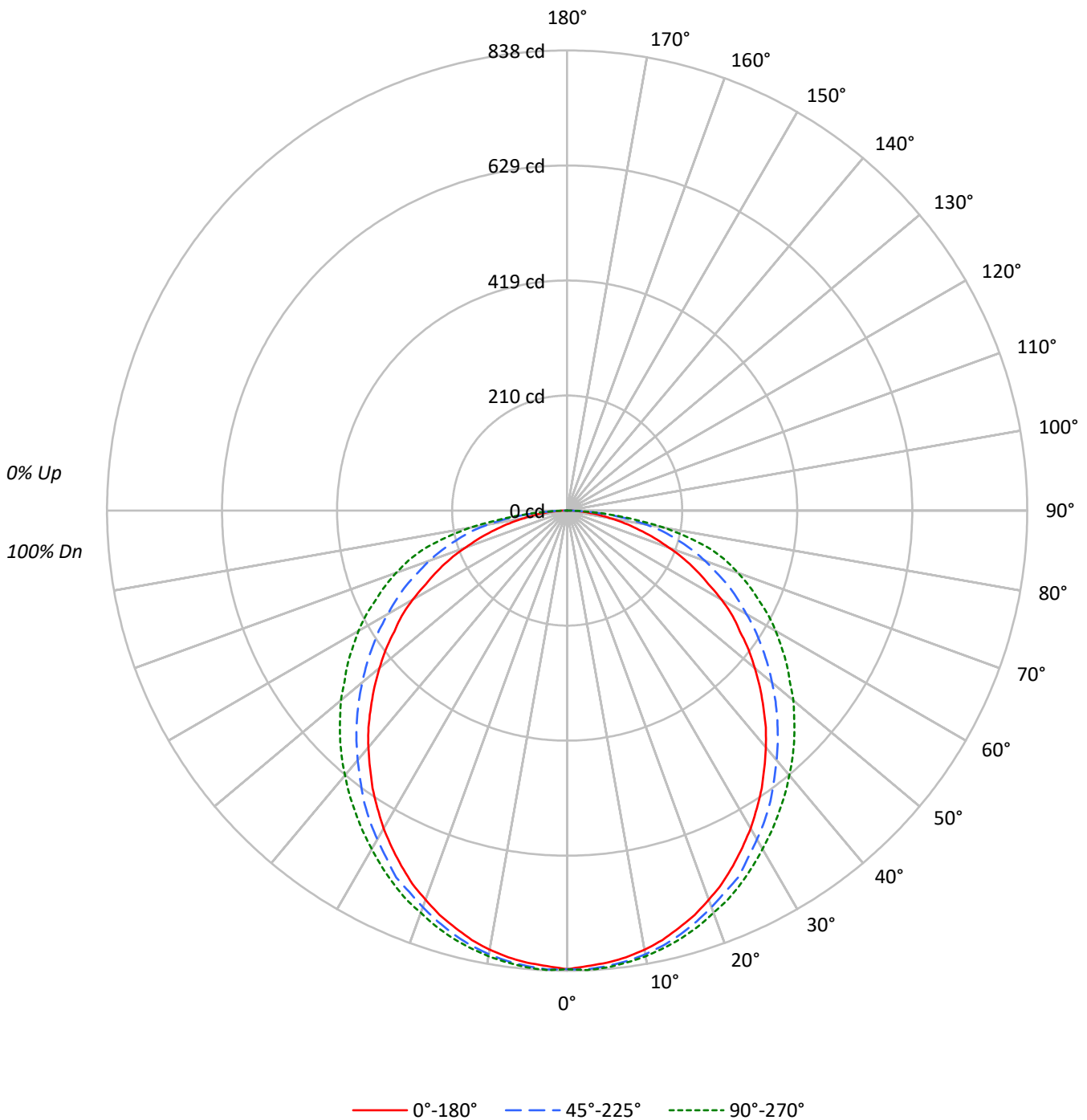
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277289

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P277289

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-5000K

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°	2247	2247	2247
5°	2233	2249	2256
10°	2219	2242	2252
15°	2192	2225	2246
20°	2160	2201	2232
25°	2121	2189	2225
30°	2077	2148	2212
35°	2029	2120	2207
40°	1978	2085	2212
45°	1923	2060	2226
50°	1867	2039	2251
55°	1803	2030	2290
60°	1750	2030	2361
65°	1662	2062	2447
70°	1550	2102	2605
75°	1420	2174	2815
80°	1237	2266	2772
85°	1081	2016	2201



TEST NUMBER: P277289

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	3.2
10°-20°	224.9	9.2
20°-30°	337.7	13.7
30°-40°	403.5	16.4
40°-50°	419.6	17.1
50°-60°	388.9	15.8
60°-70°	319.0	13.0
70°-80°	215.6	8.8
80°-90°	67.8	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°	641.6	26.1
0°-40°	1045.1	42.6
0°-60°	1853.6	75.5
0°-90°	2456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	827	828	833	834	835	78
15°	787	790	799	804	806	222
25°	714	720	737	746	749	329
35°	618	626	645	665	672	386
45°	505	515	541	573	585	390
55°	384	396	433	471	488	345
65°	261	276	324	366	384	258
75°	137	160	209	251	271	145
85°	35	48	65	72	71	40
90°	0	0	0	0	0	



TEST NUMBER: P277289

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.1	835.1	835.1	835.1	835.1
2.5°	830.3	832.7	836.3	837.5	837.5
5°	826.6	827.8	832.7	833.9	835.1
7.5°	820.6	823.0	827.8	829.0	830.3
10°	812.1	814.5	820.6	823.0	824.2
12.5°	801.2	803.7	810.9	814.5	815.7
15°	786.7	790.4	798.8	803.7	806.1
17.5°	772.2	775.9	784.3	791.6	794.0
20°	754.1	762.6	768.6	778.3	779.5
22.5°	736.0	740.8	751.7	761.4	766.2
25°	714.2	720.3	737.2	745.7	749.3
27.5°	691.3	699.7	713.0	726.3	731.2
30°	668.3	674.4	691.3	707.0	711.8
32.5°	642.9	651.4	669.5	685.2	692.5
35°	617.6	626.0	645.3	664.7	671.9
37.5°	589.8	599.4	618.8	641.7	651.4
40°	563.2	570.4	593.4	621.2	629.6
42.5°	535.4	543.8	568.0	598.2	607.9
45°	505.2	514.8	541.4	572.8	584.9
47.5°	476.2	485.8	514.8	546.2	560.8
50°	445.9	458.0	487.0	523.3	537.8
52.5°	416.9	427.8	460.4	497.9	511.2
55°	384.3	396.4	432.6	471.3	488.2
57.5°	357.7	366.2	406.1	445.9	462.9
60°	325.1	336.0	377.1	419.4	438.7
62.5°	290.0	308.2	350.5	394.0	413.3
65°	261.0	275.5	323.9	366.2	384.3
67.5°	230.8	246.5	293.7	338.4	358.9
70°	197.0	217.5	267.1	311.8	331.1
72.5°	166.8	188.5	239.3	282.8	303.3
75°	136.6	159.5	209.1	251.4	270.7
77.5°	107.6	132.9	181.3	213.9	226.0
80°	79.8	103.9	146.2	169.2	178.9
82.5°	55.6	76.1	107.6	119.6	122.1
85°	35.0	48.3	65.3	72.5	71.3
87.5°	15.7	19.3	24.2	26.6	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)