

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: P277287

Luminaire Tested: **22CZ2-29HE-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277287
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-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2346.0 lumens
Efficiency: N/A
Efficacy: 111.1 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

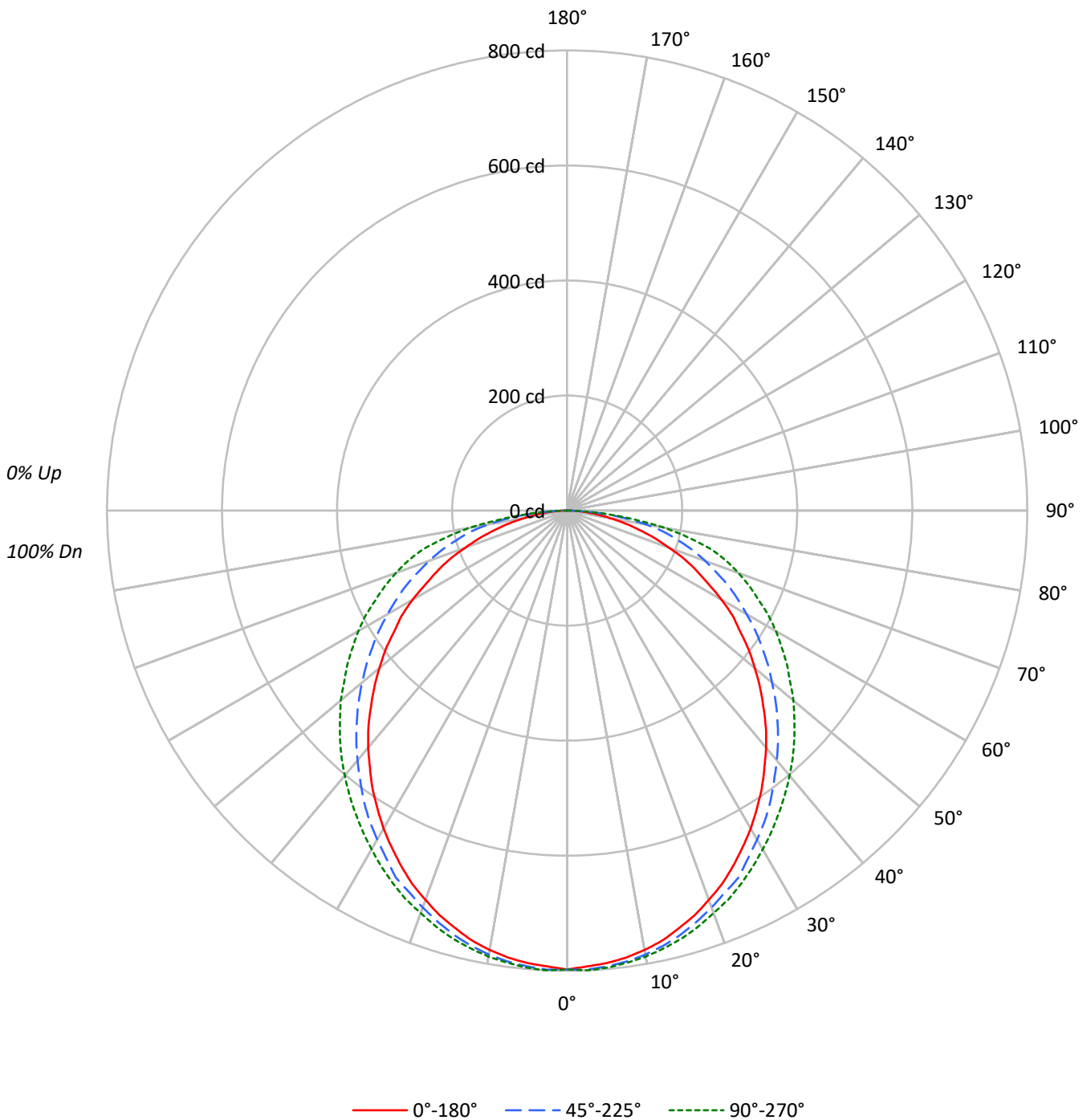
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277287

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P277287

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-4000K

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°	2147	2147	2147
5°	2133	2149	2155
10°	2120	2142	2151
15°	2094	2126	2145
20°	2063	2103	2132
25°	2026	2091	2125
30°	1984	2052	2113
35°	1938	2025	2108
40°	1890	1991	2113
45°	1836	1968	2126
50°	1783	1948	2151
55°	1722	1939	2188
60°	1671	1939	2255
65°	1587	1970	2337
70°	1481	2007	2489
75°	1356	2076	2689
80°	1181	2165	2647
85°	1034	1924	2103



TEST NUMBER: P277287

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	3.2
10°-20°	214.9	9.2
20°-30°	322.6	13.7
30°-40°	385.4	16.4
40°-50°	400.8	17.1
50°-60°	371.5	15.8
60°-70°	304.7	13.0
70°-80°	206.0	8.8
80°-90°	64.7	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°	612.9	26.1
0°-40°	998.3	42.6
0°-60°	1770.6	75.5
0°-90°	2346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	790	791	795	796	798	75
15°	752	755	763	768	770	212
25°	682	688	704	712	716	314
35°	590	598	616	635	642	369
45°	482	492	517	547	559	373
55°	367	379	413	450	466	330
65°	249	263	309	350	367	246
75°	130	152	200	240	259	138
85°	34	46	62	69	68	38
90°	0	0	0	0	0	



TEST NUMBER: P277287

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	797.7	797.7	797.7	797.7	797.7
2.5°	793.1	795.4	798.8	800.0	800.0
5°	789.6	790.8	795.4	796.5	797.7
7.5°	783.8	786.1	790.8	791.9	793.1
10°	775.7	778.1	783.8	786.1	787.3
12.5°	765.4	767.7	774.6	778.1	779.2
15°	751.5	755.0	763.1	767.7	770.0
17.5°	737.7	741.1	749.2	756.1	758.4
20°	720.3	728.4	734.2	743.4	744.6
22.5°	703.0	707.6	718.0	727.3	731.9
25°	682.2	688.0	704.2	712.3	715.7
27.5°	660.3	668.4	681.1	693.8	698.4
30°	638.4	644.1	660.3	675.3	679.9
32.5°	614.1	622.2	639.5	654.5	661.5
35°	589.9	598.0	616.4	634.9	641.8
37.5°	563.3	572.6	591.0	613.0	622.2
40°	537.9	544.9	566.8	593.4	601.4
42.5°	511.4	519.5	542.6	571.4	580.7
45°	482.5	491.8	517.2	547.2	558.7
47.5°	454.8	464.1	491.8	521.8	535.6
50°	426.0	437.5	465.2	499.9	513.7
52.5°	398.3	408.7	439.8	475.6	488.3
55°	367.1	378.6	413.3	450.2	466.4
57.5°	341.7	349.8	387.9	426.0	442.1
60°	310.5	320.9	360.2	400.6	419.0
62.5°	277.1	294.4	334.8	376.3	394.8
65°	249.3	263.2	309.4	349.8	367.1
67.5°	220.5	235.5	280.5	323.2	342.9
70°	188.2	207.8	255.1	297.8	316.3
72.5°	159.3	180.1	228.6	270.1	289.8
75°	130.4	152.4	199.7	240.1	258.6
77.5°	102.7	127.0	173.2	204.3	215.9
80°	76.2	99.3	139.7	161.6	170.8
82.5°	53.1	72.7	102.7	114.3	116.6
85°	33.5	46.2	62.3	69.3	68.1
87.5°	15.0	18.5	23.1	25.4	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)