

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: P277279

Luminaire Tested: **22CZ2-24HE-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277279
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: 22CZ2-24HE-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2058.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

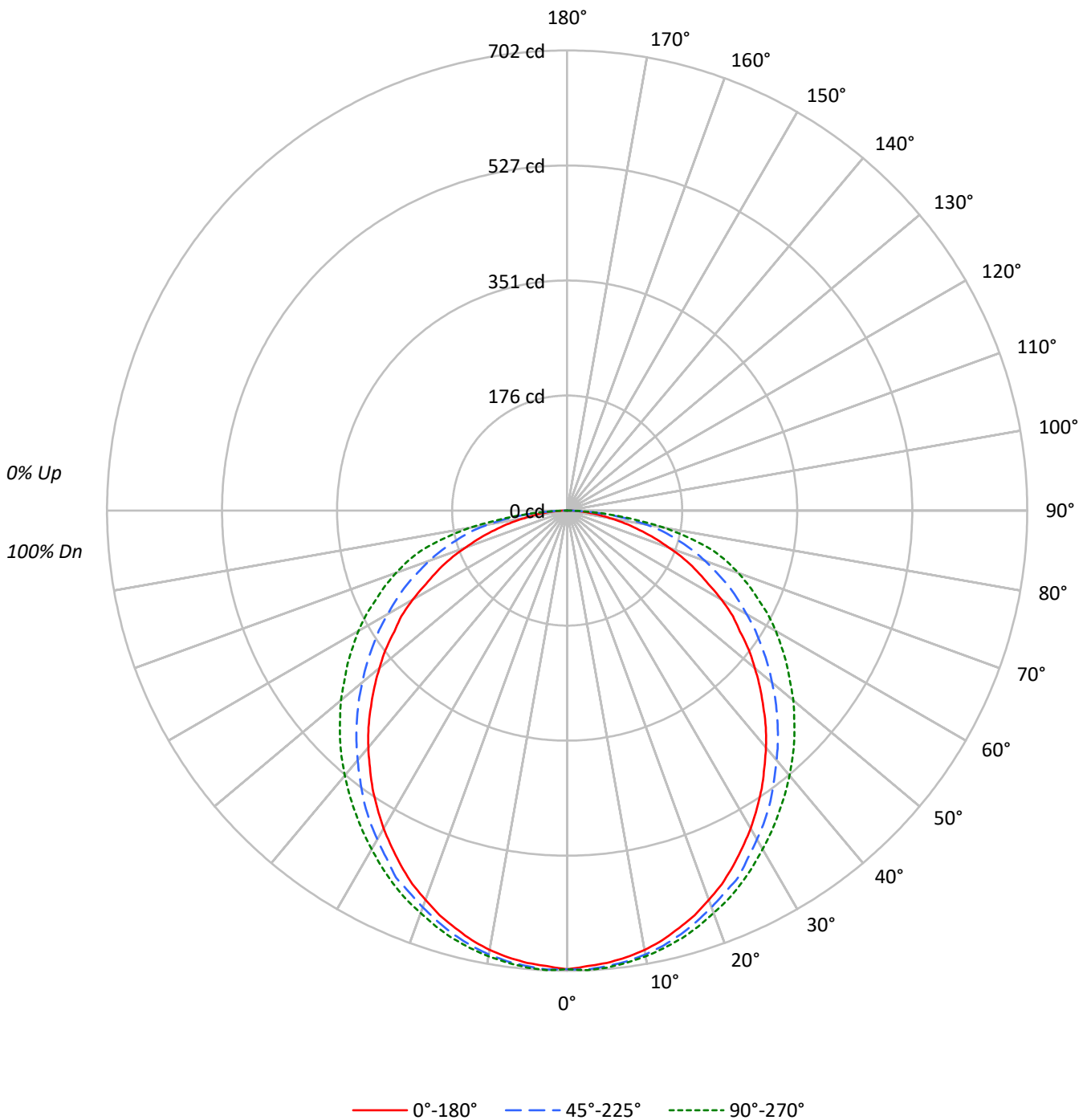
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277279

CATALOG NUMBER: 22CZ2-24HE-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P277279

CATALOG NUMBER: 22CZ2-24HE-UNV-L92765-W2A1-U-4500K

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°	1883	1883	1883
5°	1871	1885	1890
10°	1859	1879	1887
15°	1837	1865	1882
20°	1810	1844	1871
25°	1777	1834	1864
30°	1740	1800	1853
35°	1700	1777	1849
40°	1658	1747	1853
45°	1611	1727	1865
50°	1564	1708	1886
55°	1511	1701	1919
60°	1466	1701	1978
65°	1393	1728	2050
70°	1299	1761	2183
75°	1189	1822	2358
80°	1035	1898	2323
85°	908	1689	1843



TEST NUMBER: P277279

CATALOG NUMBER: 22CZ2-24HE-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.2
10°-20°	188.5	9.2
20°-30°	283.0	13.7
30°-40°	338.1	16.4
40°-50°	351.6	17.1
50°-60°	325.9	15.8
60°-70°	267.3	13.0
70°-80°	180.7	8.8
80°-90°	56.8	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°	537.6	26.1
0°-40°	875.8	42.6
0°-60°	1553.2	75.5
0°-90°	2058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	693	694	698	699	700	66
15°	659	662	669	673	676	186
25°	598	604	618	625	628	276
35°	518	525	541	557	563	323
45°	423	431	454	480	490	327
55°	322	332	362	395	409	289
65°	219	231	271	307	322	216
75°	114	134	175	211	227	121
85°	29	40	55	61	60	33
90°	0	0	0	0	0	



TEST NUMBER: P277279

CATALOG NUMBER: 22CZ2-24HE-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	699.8	699.8	699.8	699.8	699.8
2.5°	695.7	697.7	700.8	701.8	701.8
5°	692.7	693.7	697.7	698.7	699.8
7.5°	687.6	689.6	693.7	694.7	695.7
10°	680.5	682.5	687.6	689.6	690.6
12.5°	671.4	673.4	679.5	682.5	683.6
15°	659.3	662.3	669.4	673.4	675.5
17.5°	647.1	650.1	657.2	663.3	665.3
20°	631.9	639.0	644.1	652.2	653.2
22.5°	616.7	620.8	629.9	638.0	642.0
25°	598.5	603.6	617.7	624.8	627.9
27.5°	579.2	586.3	597.5	608.6	612.7
30°	560.0	565.1	579.2	592.4	596.5
32.5°	538.7	545.8	561.0	574.2	580.3
35°	517.5	524.6	540.8	557.0	563.0
37.5°	494.2	502.3	518.5	537.7	545.8
40°	471.9	478.0	497.2	520.5	527.6
42.5°	448.6	455.7	476.0	501.3	509.4
45°	423.3	431.4	453.7	480.0	490.1
47.5°	399.0	407.1	431.4	457.7	469.9
50°	373.7	383.8	408.1	438.5	450.6
52.5°	349.4	358.5	385.8	417.2	428.4
55°	322.0	332.2	362.5	394.9	409.1
57.5°	299.8	306.8	340.3	373.7	387.9
60°	272.4	281.5	316.0	351.4	367.6
62.5°	243.0	258.2	293.7	330.1	346.3
65°	218.7	230.9	271.4	306.8	322.0
67.5°	193.4	206.6	246.1	283.5	300.8
70°	165.1	182.3	223.8	261.3	277.5
72.5°	139.7	158.0	200.5	237.0	254.2
75°	114.4	133.7	175.2	210.6	226.8
77.5°	90.1	111.4	151.9	179.2	189.4
80°	66.8	87.1	122.5	141.8	149.9
82.5°	46.6	63.8	90.1	100.3	102.3
85°	29.4	40.5	54.7	60.8	59.7
87.5°	13.2	16.2	20.3	22.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)