

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: P277543

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2144.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

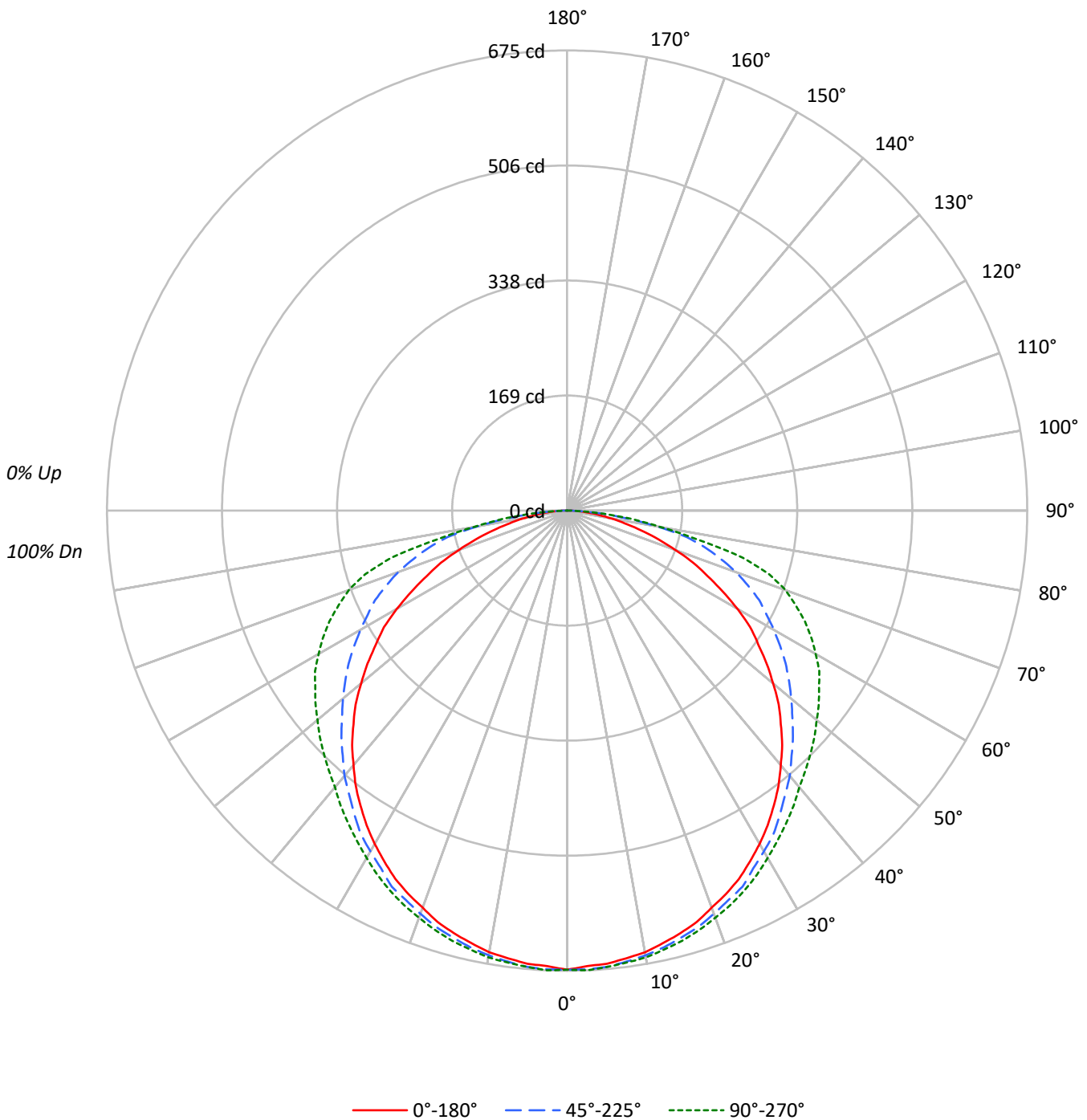
Input Watts (W): 35.391708
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277543

CATALOG NUMBER: 22CZ2-44HE-RDP-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P277543

CATALOG NUMBER: 22CZ2-44HE-RDP-UNV-L93050-W2A1-U-3000K

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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1812	1812	1812
5°	1802	1815	1815
10°	1797	1810	1819
15°	1788	1806	1819
20°	1775	1802	1820
25°	1770	1808	1826
30°	1754	1794	1828
35°	1736	1787	1839
40°	1712	1784	1861
45°	1687	1783	1921
50°	1651	1796	2001
55°	1606	1835	2116
60°	1553	1884	2266
65°	1446	1978	2450
70°	1328	2072	2681
75°	1164	2181	2771
80°	1003	2078	2176
85°	877	1510	1655



TEST NUMBER: P277543

CATALOG NUMBER: 22CZ2-44HE-RDP-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	3.0
10°-20°	182.9	8.5
20°-30°	279.1	13.0
30°-40°	340.7	15.9
40°-50°	364.3	17.0
50°-60°	351.7	16.4
60°-70°	302.7	14.1
70°-80°	204.8	9.6
80°-90°	54.0	2.5
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°	525.7	24.5
0°-40°	866.4	40.4
0°-60°	1582.4	73.8
0°-90°	2144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	667	669	672	672	672	63
15°	642	644	648	651	653	181
25°	596	599	609	612	615	274
35°	528	533	544	555	560	331
45°	443	451	468	492	505	342
55°	342	353	391	431	451	307
65°	227	249	311	360	385	226
75°	112	148	210	252	266	120
85°	28	39	49	50	54	32
90°	0	0	0	0	0	



TEST NUMBER: P277543

CATALOG NUMBER: 22CZ2-44HE-RDP-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.5	673.5	673.5	673.5	673.5
2.5°	668.7	670.3	673.5	673.5	675.0
5°	667.2	668.7	671.9	671.9	671.9
7.5°	662.4	664.0	667.2	668.7	668.7
10°	657.7	659.3	662.4	664.0	665.6
12.5°	649.8	651.4	656.1	659.3	659.3
15°	641.9	643.5	648.2	651.4	653.0
17.5°	632.5	635.6	640.3	643.5	645.1
20°	619.8	623.0	629.3	634.0	635.6
22.5°	608.8	612.0	618.3	623.0	626.2
25°	596.2	599.3	608.8	612.0	615.1
27.5°	580.4	583.6	591.5	597.8	602.5
30°	564.6	567.8	577.3	585.1	588.3
32.5°	547.3	552.0	563.1	569.4	574.1
35°	528.4	533.1	544.1	555.2	559.9
37.5°	509.4	514.2	525.2	539.4	545.7
40°	487.4	493.7	507.9	526.8	529.9
42.5°	466.9	474.7	487.4	509.4	517.3
45°	443.2	451.1	468.4	492.1	504.7
47.5°	421.1	429.0	447.9	476.3	492.1
50°	394.3	405.3	429.0	462.1	477.9
52.5°	369.1	378.5	410.1	446.3	465.3
55°	342.3	353.3	391.1	430.6	451.1
57.5°	318.6	328.1	370.6	414.8	438.5
60°	288.6	301.2	350.1	397.5	421.1
62.5°	257.1	276.0	329.6	378.5	403.8
65°	227.1	249.2	310.7	359.6	384.8
67.5°	200.3	224.0	287.1	339.1	362.8
70°	168.8	198.7	263.4	313.9	340.7
72.5°	140.4	173.5	236.6	287.1	310.7
75°	112.0	148.3	209.8	252.4	266.5
77.5°	86.7	121.4	179.8	192.4	194.0
80°	64.7	96.2	134.1	135.6	140.4
82.5°	44.2	67.8	86.7	94.6	96.2
85°	28.4	39.4	48.9	50.5	53.6
87.5°	12.6	14.2	17.3	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)