

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: P277074

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60HE-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3389.3 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

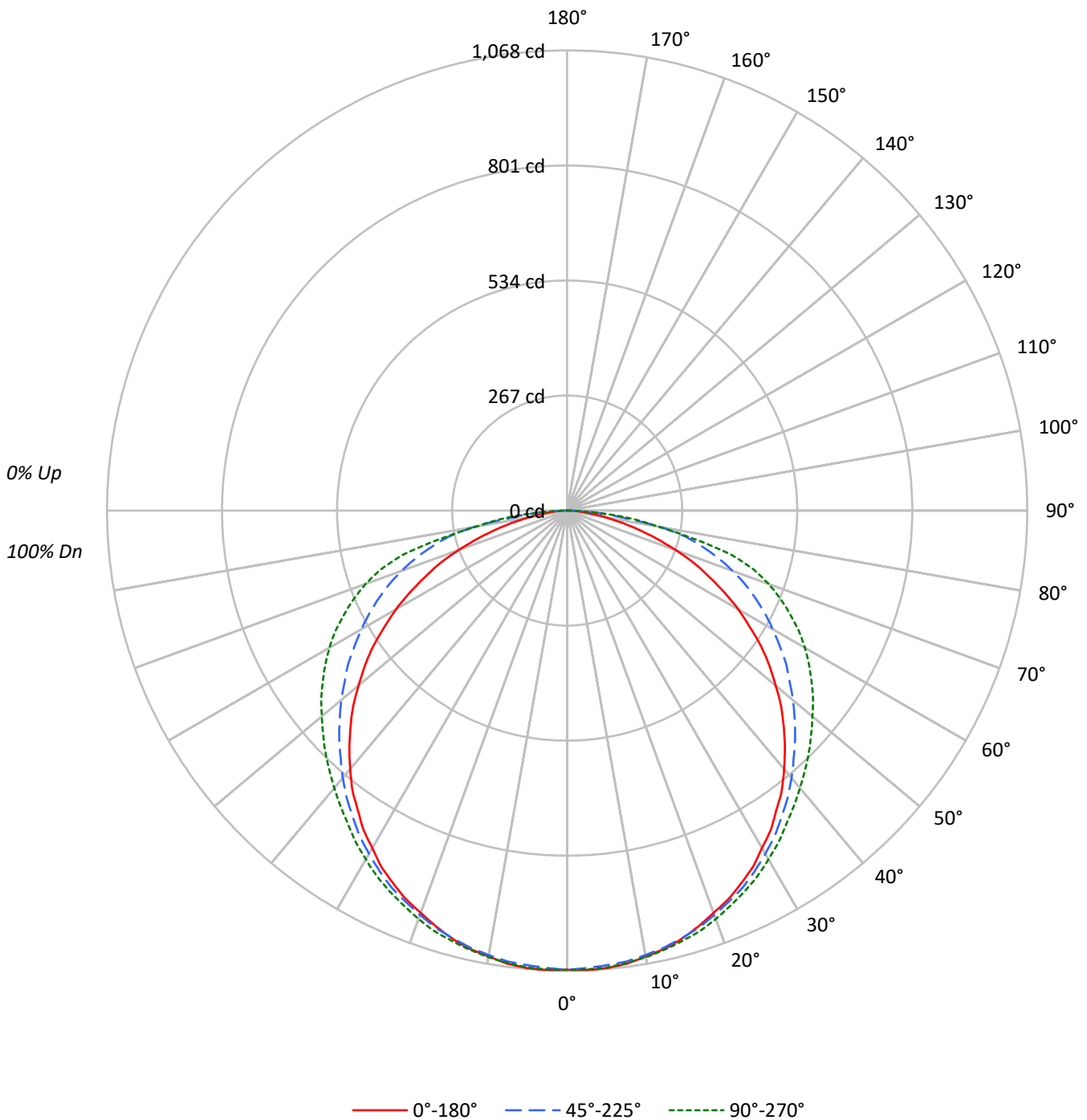
Input Watts (W): 44.826
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277074

CATALOG NUMBER: 24CZ2-60HE-RDP-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P277074

CATALOG NUMBER: 24CZ2-60HE-RDP-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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	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°	1434	1434	1434
5°	1440	1430	1437
10°	1436	1431	1438
15°	1433	1431	1440
20°	1423	1430	1444
25°	1418	1433	1447
30°	1405	1429	1452
35°	1392	1425	1458
40°	1376	1423	1476
45°	1353	1423	1510
50°	1323	1432	1555
55°	1289	1455	1625
60°	1235	1484	1714
65°	1156	1536	1820
70°	1052	1607	1958
75°	892	1695	2045
80°	704	1706	1654
85°	519	1298	1453



TEST NUMBER: P277074

CATALOG NUMBER: 24CZ2-60HE-RDP-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.0
10°-20°	291.0	8.6
20°-30°	445.0	13.1
30°-40°	544.0	16.0
40°-50°	579.8	17.1
50°-60°	554.3	16.4
60°-70°	469.6	13.9
70°-80°	315.6	9.3
80°-90°	89.0	2.6
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°	837.0	24.7
0°-40°	1381.0	40.7
0°-60°	2515.1	74.2
0°-90°	3389.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3389.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1066	1064	1059	1064	1064	101
15°	1029	1029	1027	1036	1034	290
25°	955	958	965	973	975	440
35°	847	854	868	884	888	531
45°	711	723	748	780	794	548
55°	550	570	620	669	693	490
65°	363	400	482	546	572	360
75°	172	234	326	382	393	184
85°	34	69	84	91	94	42
90°	0	0	0	0	0	



TEST NUMBER: P277074

CATALOG NUMBER: 24CZ2-60HE-RDP-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1065.8	1065.8	1065.8	1065.8	1065.8
2.5°	1067.5	1067.5	1062.5	1065.8	1065.8
5°	1065.8	1064.1	1059.1	1064.1	1064.1
7.5°	1060.8	1059.1	1055.7	1060.8	1059.1
10°	1050.7	1050.7	1047.3	1052.4	1052.4
12.5°	1042.3	1040.6	1038.9	1045.7	1044.0
15°	1028.8	1028.8	1027.2	1035.6	1033.9
17.5°	1012.0	1013.7	1015.4	1022.1	1023.8
20°	993.5	996.9	998.6	1008.7	1008.7
22.5°	976.7	978.4	981.8	991.9	991.9
25°	954.9	958.2	965.0	973.4	975.0
27.5°	933.0	934.7	943.1	954.9	956.6
30°	904.4	909.5	919.6	933.0	934.7
32.5°	879.2	884.3	896.0	909.5	912.8
35°	847.3	854.0	867.5	884.3	887.6
37.5°	818.7	823.7	840.6	859.1	864.1
40°	783.4	793.5	810.3	832.2	840.6
42.5°	748.1	758.2	778.4	806.9	817.0
45°	711.1	722.9	748.1	780.0	793.5
47.5°	674.1	687.6	716.2	753.1	768.3
50°	632.1	648.9	684.2	726.2	743.1
52.5°	591.8	611.9	650.6	697.7	719.5
55°	549.7	569.9	620.3	669.1	692.6
57.5°	502.7	529.6	585.0	640.5	665.7
60°	458.9	484.2	551.4	611.9	637.1
62.5°	411.9	445.5	517.8	581.7	606.9
65°	363.1	400.1	482.5	546.4	571.6
67.5°	319.4	359.8	447.2	511.1	536.3
70°	267.3	317.7	408.5	472.4	497.6
72.5°	218.5	274.0	368.2	430.4	453.9
75°	171.5	233.7	326.1	381.6	393.4
77.5°	127.8	193.3	282.4	306.0	297.6
80°	90.8	154.7	220.2	208.5	213.5
82.5°	58.8	117.7	136.2	154.7	159.7
85°	33.6	68.9	84.1	90.8	94.1
87.5°	15.1	25.2	33.6	33.6	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)