

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: P277081

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277081
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: 24CZ2-65HE-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3388.6 lumens
Efficiency: N/A
Efficacy: 69.9 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

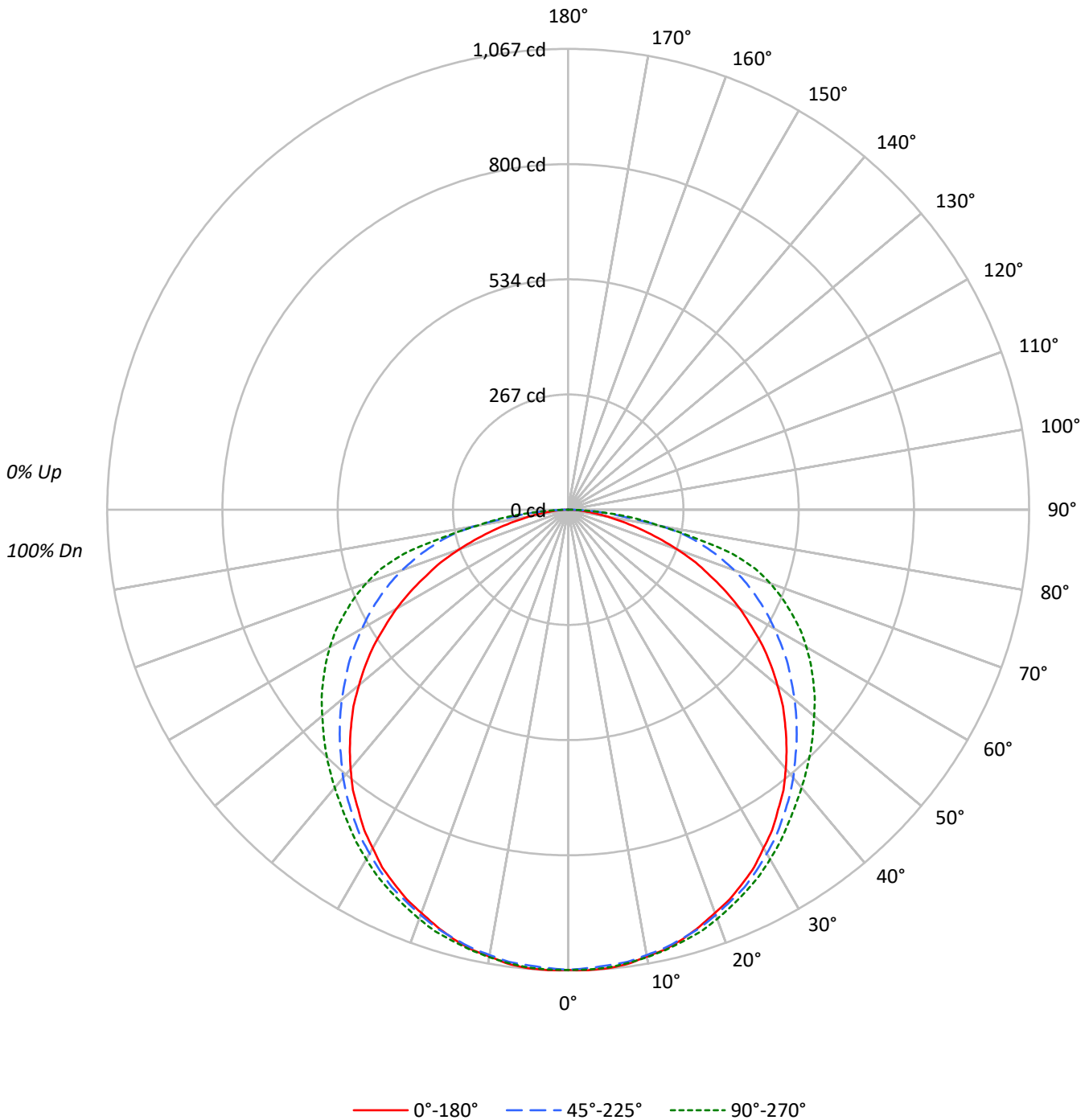
Input Watts (W): 48.453
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277081

CATALOG NUMBER: 24CZ2-65HE-RDP-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P277081

CATALOG NUMBER: 24CZ2-65HE-RDP-UNV-L92765-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	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°	1439	1430	1437
10°	1435	1431	1438
15°	1433	1431	1440
20°	1422	1430	1444
25°	1417	1432	1447
30°	1405	1428	1452
35°	1391	1425	1458
40°	1376	1423	1476
45°	1353	1423	1509
50°	1323	1432	1555
55°	1289	1455	1624
60°	1235	1484	1714
65°	1156	1536	1819
70°	1051	1607	1957
75°	891	1695	2045
80°	704	1706	1654
85°	519	1297	1453



TEST NUMBER: P277081

CATALOG NUMBER: 24CZ2-65HE-RDP-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.0
10°-20°	290.9	8.6
20°-30°	444.9	13.1
30°-40°	543.9	16.0
40°-50°	579.6	17.1
50°-60°	554.2	16.4
60°-70°	469.5	13.9
70°-80°	315.5	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°	836.9	24.7
0°-40°	1380.7	40.7
0°-60°	2514.6	74.2
0°-90°	3388.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3388.6	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	1035	1034	290
25°	955	958	965	973	975	440
35°	847	854	867	884	888	531
45°	711	723	748	780	793	548
55°	550	570	620	669	692	490
65°	363	400	482	546	572	360
75°	171	234	326	382	393	184
85°	34	69	84	91	94	42
90°	0	0	0	0	0	



TEST NUMBER: P277081

CATALOG NUMBER: 24CZ2-65HE-RDP-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1065.6	1065.6	1065.6	1065.6	1065.6
2.5°	1067.3	1067.3	1062.3	1065.6	1065.6
5°	1065.6	1063.9	1058.9	1063.9	1063.9
7.5°	1060.6	1058.9	1055.5	1060.6	1058.9
10°	1050.5	1050.5	1047.1	1052.2	1052.2
12.5°	1042.1	1040.4	1038.7	1045.5	1043.8
15°	1028.7	1028.7	1027.0	1035.4	1033.7
17.5°	1011.8	1013.5	1015.2	1021.9	1023.6
20°	993.4	996.7	998.4	1008.5	1008.5
22.5°	976.5	978.2	981.6	991.7	991.7
25°	954.7	958.1	964.8	973.2	974.9
27.5°	932.8	934.5	942.9	954.7	956.4
30°	904.3	909.3	919.4	932.8	934.5
32.5°	879.1	884.1	895.9	909.3	912.7
35°	847.1	853.8	867.3	884.1	887.5
37.5°	818.6	823.6	840.4	858.9	863.9
40°	783.3	793.3	810.1	832.0	840.4
42.5°	748.0	758.0	778.2	806.8	816.9
45°	711.0	722.7	748.0	779.9	793.3
47.5°	674.0	687.4	716.0	753.0	768.1
50°	632.0	648.8	684.1	726.1	742.9
52.5°	591.6	611.8	650.5	697.5	719.4
55°	549.6	569.8	620.2	669.0	692.5
57.5°	502.6	529.5	584.9	640.4	665.6
60°	458.9	484.1	551.3	611.8	637.0
62.5°	411.8	445.4	517.7	581.6	606.8
65°	363.1	400.0	482.4	546.3	571.5
67.5°	319.4	359.7	447.1	511.0	536.2
70°	267.2	317.7	408.4	472.3	497.5
72.5°	218.5	274.0	368.1	430.3	453.8
75°	171.4	233.6	326.1	381.5	393.3
77.5°	127.7	193.3	282.4	305.9	297.5
80°	90.8	154.6	220.2	208.4	213.5
82.5°	58.8	117.7	136.1	154.6	159.7
85°	33.6	68.9	84.0	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)