

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: P277062

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277062
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: 24CZ2-55HE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2767.1 lumens
Efficiency: N/A
Efficacy: 69.2 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

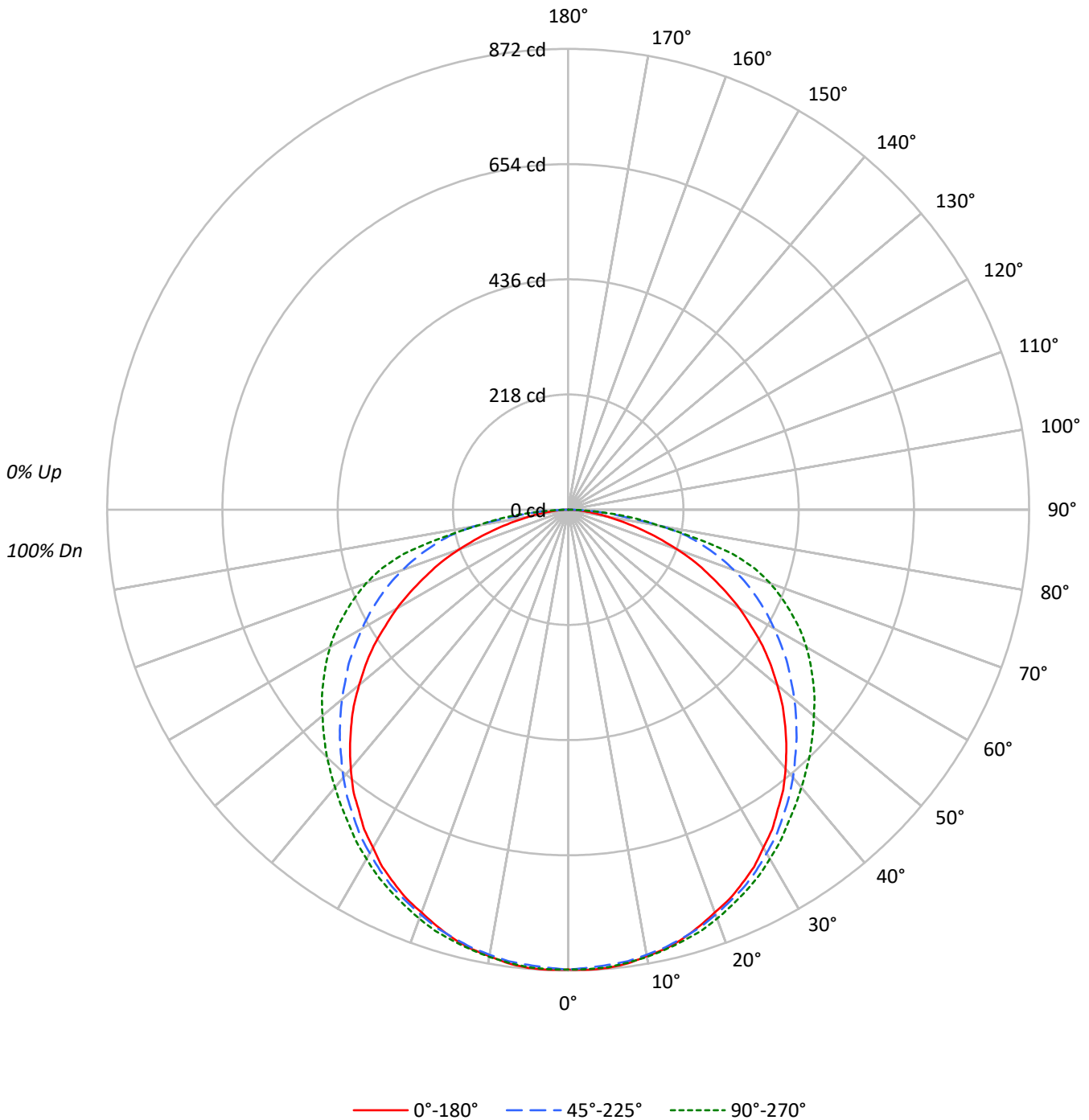
Input Watts (W): 39.99
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277062

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P277062

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-L92765-W2A1-U-2700K

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°	1171	1171	1171
5°	1175	1168	1173
10°	1172	1168	1174
15°	1170	1168	1176
20°	1161	1167	1179
25°	1157	1170	1182
30°	1147	1166	1186
35°	1136	1163	1190
40°	1123	1162	1205
45°	1105	1162	1233
50°	1080	1169	1270
55°	1053	1188	1327
60°	1008	1211	1400
65°	944	1254	1486
70°	858	1312	1598
75°	728	1384	1670
80°	574	1393	1351
85°	423	1059	1187



TEST NUMBER: P277062

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	3.0
10°-20°	237.6	8.6
20°-30°	363.3	13.1
30°-40°	444.1	16.0
40°-50°	473.3	17.1
50°-60°	452.5	16.4
60°-70°	383.4	13.9
70°-80°	257.7	9.3
80°-90°	72.7	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°	683.4	24.7
0°-40°	1127.5	40.7
0°-60°	2053.3	74.2
0°-90°	2767.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	870	869	865	869	869	83
15°	840	840	839	845	844	237
25°	780	782	788	795	796	359
35°	692	697	708	722	725	433
45°	581	590	611	637	648	448
55°	449	465	506	546	566	400
65°	296	327	394	446	467	294
75°	140	191	266	312	321	150
85°	27	56	69	74	77	34
90°	0	0	0	0	0	



TEST NUMBER: P277062

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	870.2	870.2	870.2	870.2	870.2
2.5°	871.5	871.5	867.4	870.2	870.2
5°	870.2	868.8	864.7	868.8	868.8
7.5°	866.0	864.7	861.9	866.0	864.7
10°	857.8	857.8	855.1	859.2	859.2
12.5°	850.9	849.6	848.2	853.7	852.3
15°	840.0	840.0	838.6	845.4	844.1
17.5°	826.2	827.6	829.0	834.5	835.8
20°	811.1	813.9	815.3	823.5	823.5
22.5°	797.4	798.8	801.5	809.8	809.8
25°	779.6	782.3	787.8	794.7	796.0
27.5°	761.7	763.1	770.0	779.6	780.9
30°	738.4	742.5	750.7	761.7	763.1
32.5°	717.8	721.9	731.5	742.5	745.3
35°	691.7	697.2	708.2	721.9	724.7
37.5°	668.4	672.5	686.2	701.3	705.5
40°	639.6	647.8	661.5	679.4	686.2
42.5°	610.8	619.0	635.5	658.8	667.0
45°	580.6	590.2	610.8	636.8	647.8
47.5°	550.4	561.3	584.7	614.9	627.2
50°	516.1	529.8	558.6	592.9	606.6
52.5°	483.1	499.6	531.1	569.6	587.4
55°	448.8	465.3	506.4	546.2	565.5
57.5°	410.4	432.3	477.6	522.9	543.5
60°	374.7	395.3	450.2	499.6	520.2
62.5°	336.3	363.7	422.7	474.9	495.5
65°	296.5	326.6	393.9	446.1	466.6
67.5°	260.8	293.7	365.1	417.2	437.8
70°	218.2	259.4	333.5	385.7	406.3
72.5°	178.4	223.7	300.6	351.4	370.6
75°	140.0	190.8	266.3	311.6	321.2
77.5°	104.3	157.8	230.6	249.8	242.9
80°	74.1	126.3	179.8	170.2	174.3
82.5°	48.0	96.1	111.2	126.3	130.4
85°	27.4	56.3	68.6	74.1	76.9
87.5°	12.4	20.6	27.4	27.4	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)