

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: P277059

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277059
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: 24CZ2-50HE-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3001.8 lumens
Efficiency: N/A
Efficacy: 81.7 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

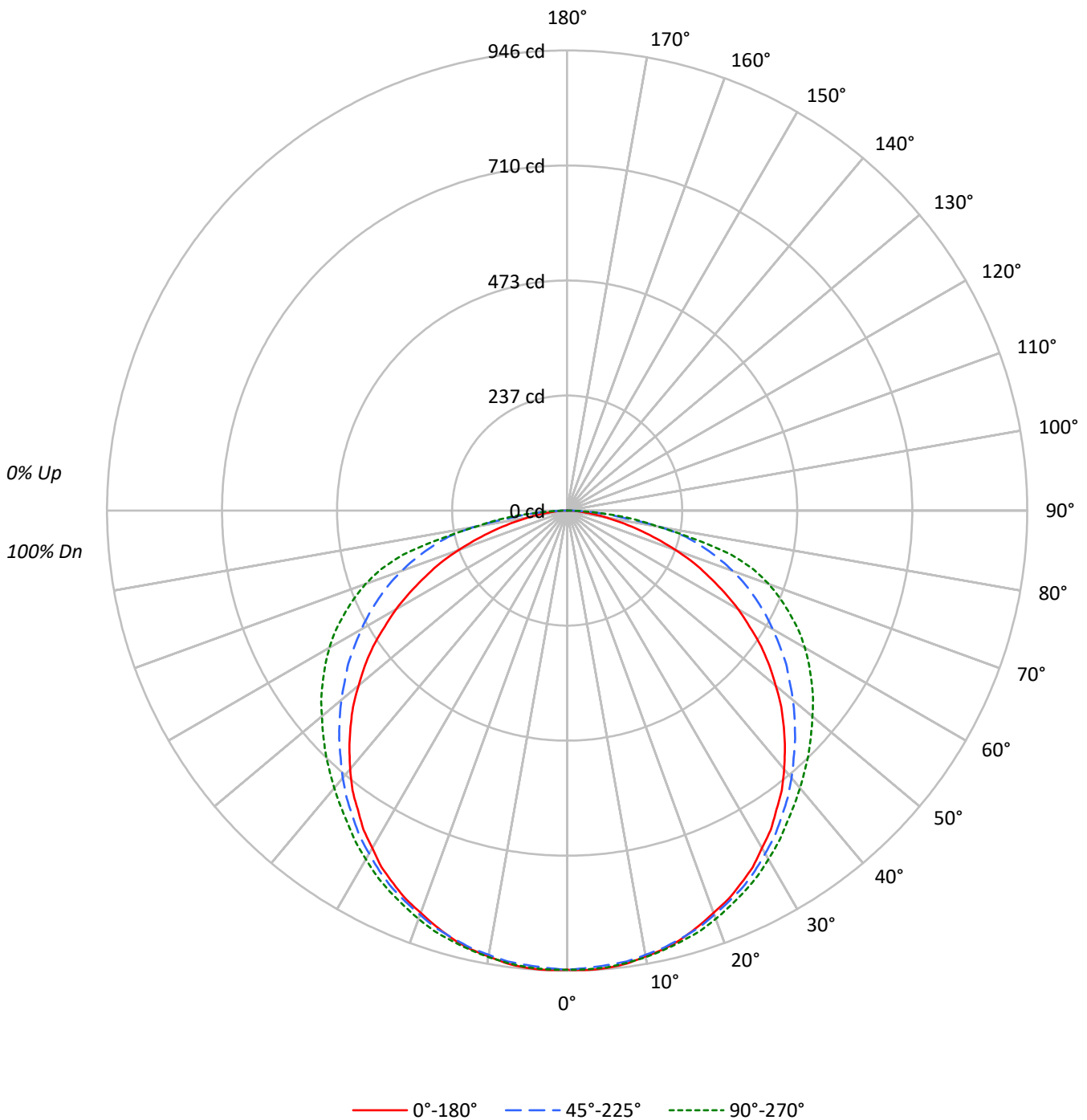
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277059

CATALOG NUMBER: 24CZ2-50HE-RDP-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P277059

CATALOG NUMBER: 24CZ2-50HE-RDP-UNV-L92765-W2A1-U-5500K

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°	1270	1270	1270
5°	1275	1267	1273
10°	1271	1267	1273
15°	1269	1267	1276
20°	1260	1266	1279
25°	1256	1269	1282
30°	1244	1265	1286
35°	1233	1262	1291
40°	1219	1261	1308
45°	1198	1261	1337
50°	1172	1268	1378
55°	1142	1289	1439
60°	1094	1314	1519
65°	1024	1360	1612
70°	931	1423	1734
75°	790	1502	1811
80°	623	1511	1465
85°	460	1149	1288



TEST NUMBER: P277059

CATALOG NUMBER: 24CZ2-50HE-RDP-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.0
10°-20°	257.7	8.6
20°-30°	394.1	13.1
30°-40°	481.8	16.0
40°-50°	513.5	17.1
50°-60°	490.9	16.4
60°-70°	415.9	13.9
70°-80°	279.5	9.3
80°-90°	78.8	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°	741.3	24.7
0°-40°	1223.1	40.7
0°-60°	2227.5	74.2
0°-90°	3001.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	944	942	938	942	942	90
15°	911	911	910	917	916	257
25°	846	849	855	862	864	390
35°	750	756	768	783	786	470
45°	630	640	663	691	703	486
55°	487	505	549	593	613	434
65°	322	354	427	484	506	319
75°	152	207	289	338	348	163
85°	30	61	74	80	83	37
90°	0	0	0	0	0	



TEST NUMBER: P277059

CATALOG NUMBER: 24CZ2-50HE-RDP-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.0	944.0	944.0	944.0	944.0
2.5°	945.5	945.5	941.0	944.0	944.0
5°	944.0	942.5	938.0	942.5	942.5
7.5°	939.5	938.0	935.0	939.5	938.0
10°	930.6	930.6	927.6	932.1	932.1
12.5°	923.1	921.6	920.2	926.1	924.6
15°	911.2	911.2	909.7	917.2	915.7
17.5°	896.3	897.8	899.3	905.3	906.8
20°	880.0	882.9	884.4	893.4	893.4
22.5°	865.1	866.6	869.5	878.5	878.5
25°	845.7	848.7	854.6	862.1	863.6
27.5°	826.4	827.8	835.3	845.7	847.2
30°	801.0	805.5	814.4	826.4	827.8
32.5°	778.7	783.2	793.6	805.5	808.5
35°	750.4	756.4	768.3	783.2	786.2
37.5°	725.1	729.6	744.5	760.8	765.3
40°	693.8	702.8	717.7	737.0	744.5
42.5°	662.6	671.5	689.4	714.7	723.6
45°	629.8	640.2	662.6	690.9	702.8
47.5°	597.1	609.0	634.3	667.0	680.4
50°	559.8	574.7	606.0	643.2	658.1
52.5°	524.1	542.0	576.2	617.9	637.3
55°	486.9	504.7	549.4	592.6	613.4
57.5°	445.2	469.0	518.1	567.3	589.6
60°	406.5	428.8	488.4	542.0	564.3
62.5°	364.8	394.6	458.6	515.2	537.5
65°	321.6	354.4	427.3	483.9	506.2
67.5°	282.9	318.6	396.1	452.6	475.0
70°	236.7	281.4	361.8	418.4	440.7
72.5°	193.6	242.7	326.1	381.2	402.0
75°	151.9	207.0	288.9	338.0	348.4
77.5°	113.2	171.2	250.1	271.0	263.5
80°	80.4	137.0	195.0	184.6	189.1
82.5°	52.1	104.2	120.6	137.0	141.4
85°	29.8	61.0	74.4	80.4	83.4
87.5°	13.4	22.3	29.8	29.8	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)