

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: P277150

Luminaire Tested: **24CZ2-50-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277150
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: 24CZ2-50-RDP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3000.5 lumens
Efficiency: N/A
Efficacy: 73.3 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

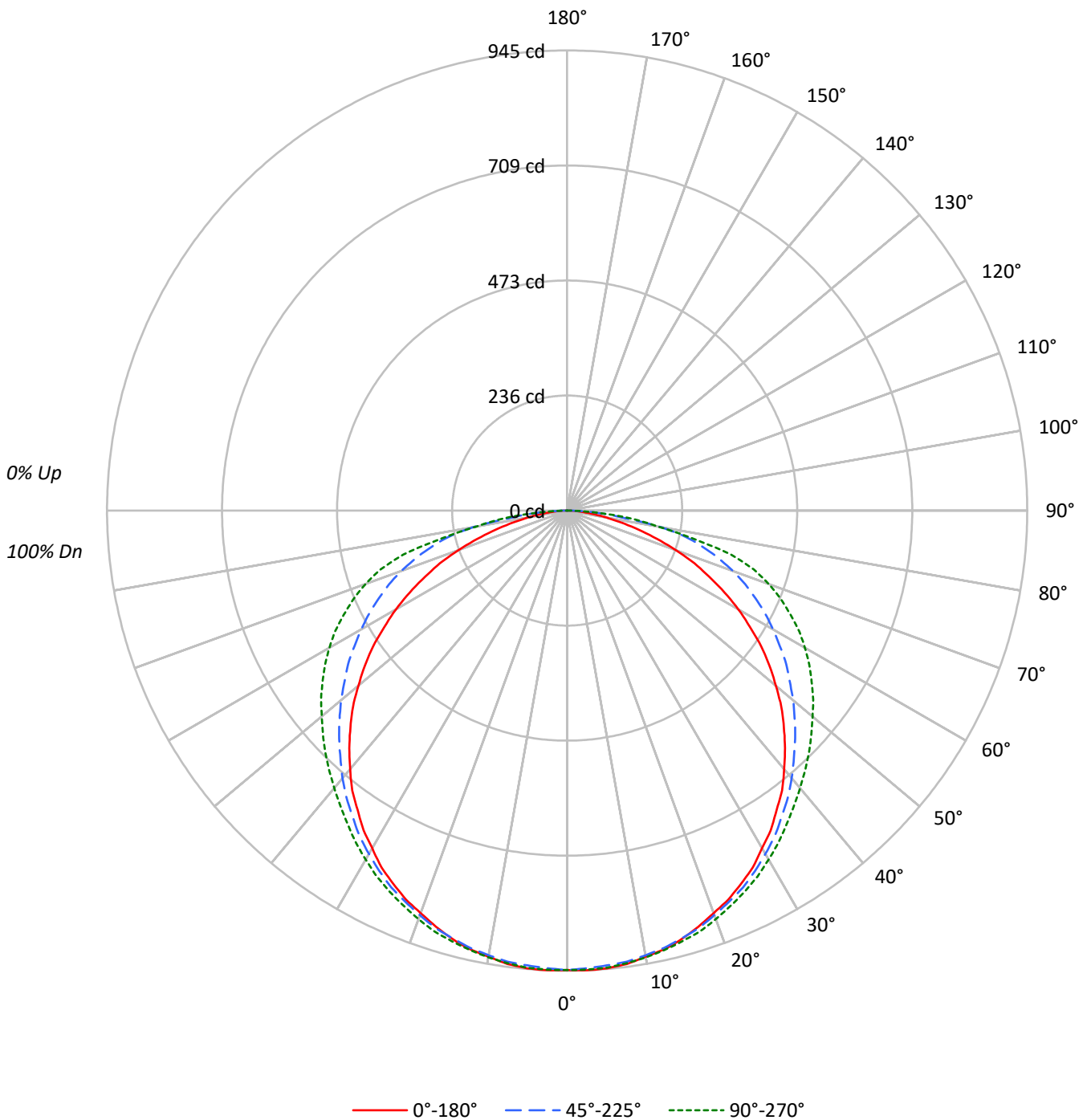
Input Watts (W): 40.92
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	1274	1266	1272
10°	1271	1267	1273
15°	1269	1267	1275
20°	1259	1266	1279
25°	1255	1268	1281
30°	1244	1265	1286
35°	1232	1261	1291
40°	1218	1260	1307
45°	1198	1260	1337
50°	1171	1268	1377
55°	1142	1288	1438
60°	1093	1314	1518
65°	1024	1360	1611
70°	931	1423	1733
75°	789	1501	1811
80°	623	1511	1464
85°	460	1149	1286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.0
10°-20°	257.6	8.6
20°-30°	393.9	13.1
30°-40°	481.6	16.0
40°-50°	513.3	17.1
50°-60°	490.7	16.4
60°-70°	415.7	13.9
70°-80°	279.4	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°	741.0	24.7
0°-40°	1222.6	40.7
0°-60°	2226.6	74.2
0°-90°	3000.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3000.5	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	909	917	915	257
25°	845	848	854	862	863	390
35°	750	756	768	783	786	470
45°	630	640	662	691	702	486
55°	487	504	549	592	613	433
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.6	943.6	943.6	943.6	943.6
2.5°	945.1	945.1	940.6	943.6	943.6
5°	943.6	942.1	937.6	942.1	942.1
7.5°	939.1	937.6	934.7	939.1	937.6
10°	930.2	930.2	927.2	931.7	931.7
12.5°	922.7	921.3	919.8	925.7	924.2
15°	910.8	910.8	909.3	916.8	915.3
17.5°	896.0	897.4	898.9	904.9	906.4
20°	879.6	882.6	884.0	893.0	893.0
22.5°	864.7	866.2	869.2	878.1	878.1
25°	845.4	848.3	854.3	861.7	863.2
27.5°	826.0	827.5	834.9	845.4	846.8
30°	800.7	805.2	814.1	826.0	827.5
32.5°	778.4	782.8	793.3	805.2	808.1
35°	750.1	756.1	768.0	782.8	785.8
37.5°	724.8	729.3	744.1	760.5	765.0
40°	693.5	702.5	717.4	736.7	744.1
42.5°	662.3	671.2	689.1	714.4	723.3
45°	629.5	640.0	662.3	690.6	702.5
47.5°	596.8	608.7	634.0	666.8	680.2
50°	559.6	574.5	605.7	642.9	657.8
52.5°	523.9	541.7	576.0	617.6	637.0
55°	486.7	504.5	549.2	592.3	613.2
57.5°	445.0	468.8	517.9	567.0	589.4
60°	406.3	428.6	488.2	541.7	564.1
62.5°	364.6	394.4	458.4	515.0	537.3
65°	321.5	354.2	427.1	483.7	506.0
67.5°	282.8	318.5	395.9	452.4	474.8
70°	236.6	281.3	361.7	418.2	440.5
72.5°	193.5	242.6	325.9	381.0	401.8
75°	151.8	206.9	288.7	337.8	348.3
77.5°	113.1	171.2	250.0	270.9	263.4
80°	80.4	136.9	195.0	184.5	189.0
82.5°	52.1	104.2	120.6	136.9	141.4
85°	29.8	61.0	74.4	80.4	83.3
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)