

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: P263639

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3191.3 lumens
Efficiency: N/A
Efficacy: 78.3 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

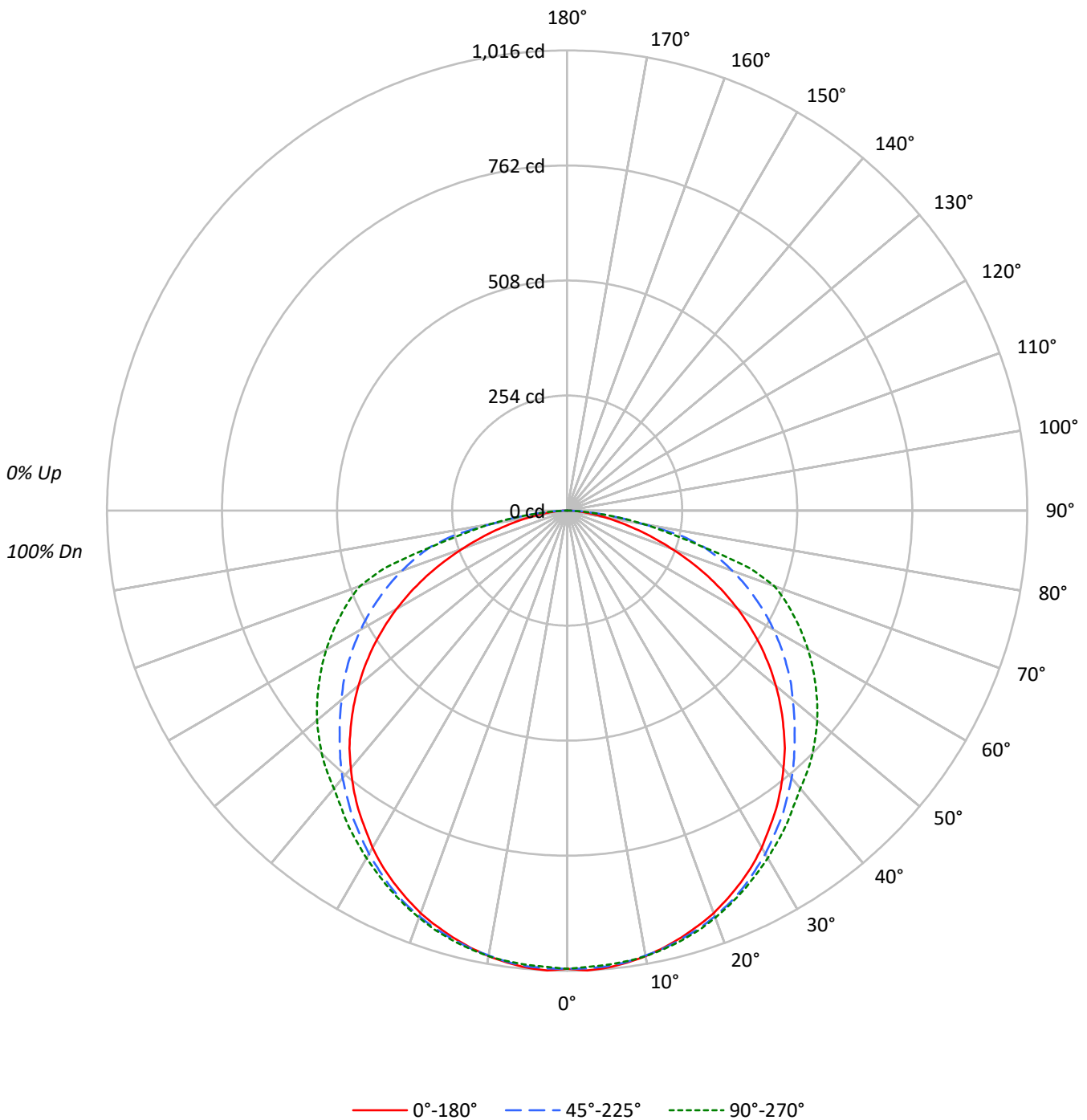
Input Watts (W): 40.743486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1361	1361	1361
5°	1368	1364	1360
10°	1365	1363	1365
15°	1359	1363	1368
20°	1354	1365	1370
25°	1346	1364	1371
30°	1335	1359	1377
35°	1321	1357	1388
40°	1305	1355	1407
45°	1285	1351	1456
50°	1259	1361	1509
55°	1223	1386	1570
60°	1171	1416	1653
65°	1090	1460	1761
70°	964	1526	1916
75°	808	1633	1609
80°	645	1290	1339
85°	509	874	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	3.0
10°-20°	276.2	8.7
20°-30°	421.8	13.2
30°-40°	515.7	16.2
40°-50°	552.0	17.3
50°-60°	529.5	16.6
60°-70°	447.0	14.0
70°-80°	285.7	9.0
80°-90°	67.6	2.1
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°	793.9	24.9
0°-40°	1309.6	41.0
0°-60°	2391.0	74.9
0°-90°	3191.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3191.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1013	1007	1010	1008	1007	96
15°	976	972	979	982	982	275
25°	906	905	919	922	924	418
35°	804	811	826	837	845	503
45°	676	686	710	743	765	521
55°	522	539	591	644	669	465
65°	342	376	459	523	553	338
75°	156	222	314	320	310	167
85°	33	55	57	55	52	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.7	1011.7	1011.7	1011.7	1011.7
2.5°	1016.4	1010.1	1011.7	1011.7	1008.5
5°	1013.2	1007.0	1010.1	1008.5	1007.0
7.5°	1007.0	1002.3	1005.4	1005.4	1003.8
10°	999.1	994.4	997.5	999.1	999.1
12.5°	988.1	985.0	989.7	989.7	991.3
15°	975.5	972.4	978.7	981.8	981.8
17.5°	961.4	959.8	967.7	969.3	970.8
20°	945.7	944.1	953.6	953.6	956.7
22.5°	926.8	925.3	937.8	937.8	941.0
25°	906.4	904.9	919.0	922.1	923.7
27.5°	884.4	882.9	897.0	901.7	904.9
30°	859.3	859.3	875.0	881.3	886.0
32.5°	831.0	835.7	849.9	859.3	865.6
35°	804.3	810.6	826.3	837.3	845.2
37.5°	774.5	780.8	798.0	812.2	821.6
40°	743.0	750.9	771.3	787.0	801.2
42.5°	711.6	719.5	741.5	765.0	783.9
45°	675.5	686.5	710.1	743.0	765.0
47.5°	639.4	650.4	680.2	721.1	743.0
50°	601.7	614.2	650.4	697.5	721.1
52.5°	562.4	576.5	622.1	672.4	695.9
55°	521.5	538.8	590.7	644.1	669.2
57.5°	479.1	498.0	559.3	615.8	642.5
60°	435.1	458.7	526.3	586.0	614.2
62.5°	389.6	417.9	493.3	554.5	584.4
65°	342.5	375.5	458.7	523.1	553.0
67.5°	293.8	337.7	424.2	491.7	521.5
70°	245.1	296.9	388.0	457.1	487.0
72.5°	199.5	259.2	351.9	416.3	422.6
75°	155.5	221.5	314.2	320.5	309.5
77.5°	116.2	183.8	259.2	230.9	229.4
80°	83.3	147.7	166.5	171.2	172.8
82.5°	55.0	111.5	108.4	111.5	110.0
85°	33.0	55.0	56.6	55.0	51.8
87.5°	15.7	20.4	15.7	14.1	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)