

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: P276753

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276753
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-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3198.0 lumens
Efficiency: N/A
Efficacy: 89.5 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

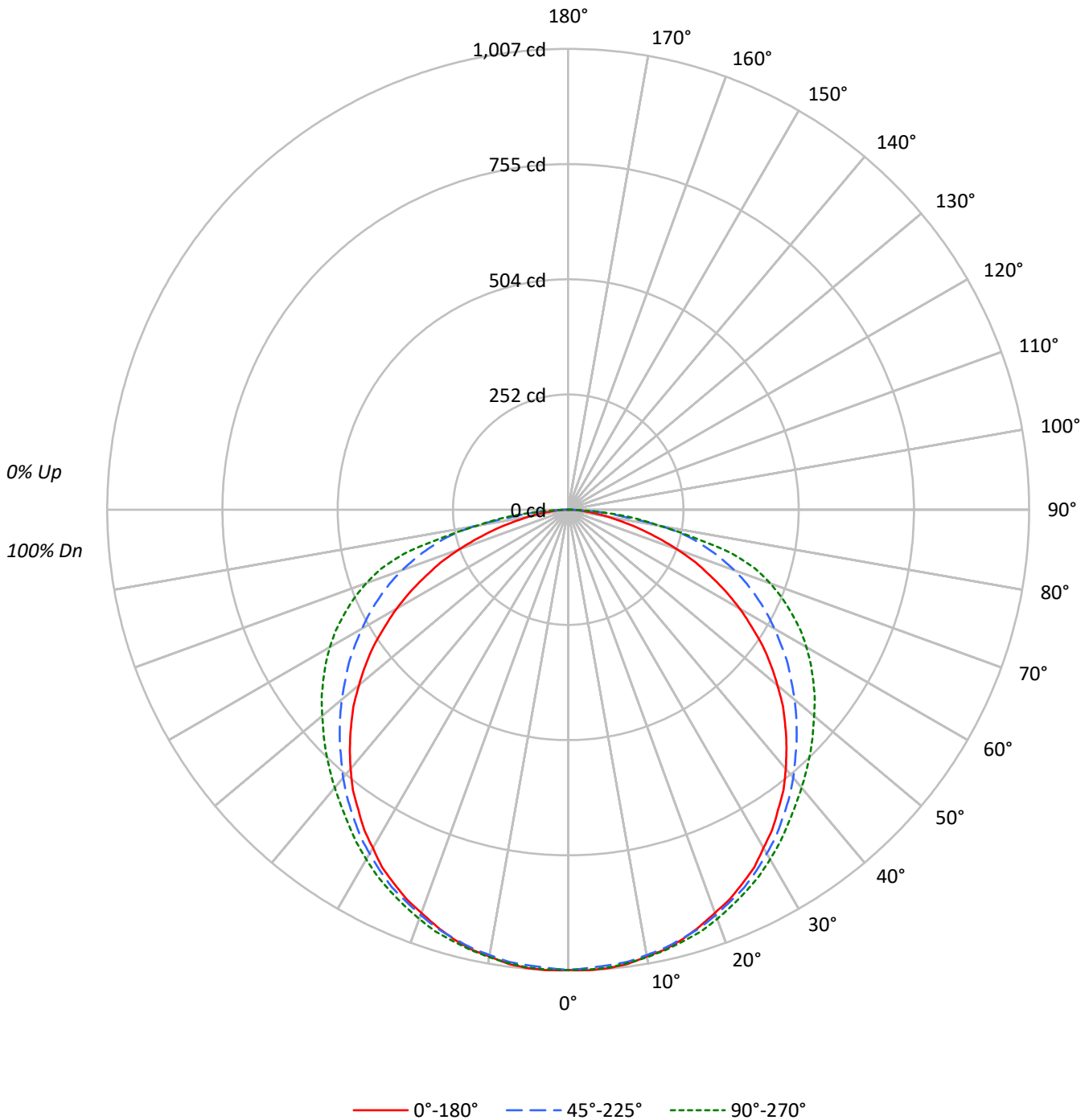
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1353	1353	1353
5°	1358	1350	1356
10°	1354	1350	1357
15°	1352	1350	1359
20°	1342	1349	1363
25°	1338	1352	1366
30°	1326	1348	1370
35°	1313	1344	1376
40°	1298	1343	1393
45°	1277	1343	1425
50°	1248	1351	1468
55°	1217	1373	1533
60°	1165	1400	1618
65°	1091	1450	1717
70°	992	1517	1847
75°	841	1600	1930
80°	664	1610	1561
85°	489	1224	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.0
10°-20°	274.6	8.6
20°-30°	419.9	13.1
30°-40°	513.3	16.0
40°-50°	547.0	17.1
50°-60°	523.0	16.4
60°-70°	443.1	13.9
70°-80°	297.8	9.3
80°-90°	84.0	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°	789.8	24.7
0°-40°	1303.1	40.7
0°-60°	2373.1	74.2
0°-90°	3198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1006	1004	999	1004	1004	96
15°	971	971	969	977	976	274
25°	901	904	910	918	920	415
35°	800	806	818	834	838	501
45°	671	682	706	736	749	518
55°	519	538	585	631	654	462
65°	343	378	455	516	539	340
75°	162	220	308	360	371	173
85°	32	65	79	86	89	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.7	1005.7	1005.7	1005.7	1005.7
2.5°	1007.3	1007.3	1002.5	1005.7	1005.7
5°	1005.7	1004.1	999.3	1004.1	1004.1
7.5°	1000.9	999.3	996.2	1000.9	999.3
10°	991.4	991.4	988.2	993.0	993.0
12.5°	983.5	981.9	980.3	986.6	985.1
15°	970.8	970.8	969.2	977.1	975.5
17.5°	954.9	956.5	958.1	964.4	966.0
20°	937.5	940.6	942.2	951.7	951.7
22.5°	921.6	923.2	926.4	935.9	935.9
25°	901.0	904.2	910.5	918.4	920.0
27.5°	880.4	882.0	889.9	901.0	902.6
30°	853.4	858.2	867.7	880.4	882.0
32.5°	829.6	834.4	845.5	858.2	861.3
35°	799.5	805.8	818.5	834.4	837.5
37.5°	772.5	777.3	793.1	810.6	815.3
40°	739.2	748.7	764.6	785.2	793.1
42.5°	705.9	715.4	734.4	761.4	770.9
45°	671.0	682.1	705.9	736.0	748.7
47.5°	636.1	648.8	675.7	710.6	724.9
50°	596.4	612.3	645.6	685.3	701.1
52.5°	558.4	577.4	613.9	658.3	678.9
55°	518.7	537.7	585.3	631.3	653.5
57.5°	474.3	499.7	552.0	604.4	628.2
60°	433.0	456.8	520.3	577.4	601.2
62.5°	388.6	420.4	488.6	548.8	572.6
65°	342.6	377.5	455.3	515.5	539.3
67.5°	301.4	339.5	421.9	482.2	506.0
70°	252.2	299.8	385.5	445.7	469.5
72.5°	206.2	258.6	347.4	406.1	428.3
75°	161.8	220.5	307.7	360.1	371.2
77.5°	120.6	182.4	266.5	288.7	280.8
80°	85.7	145.9	207.8	196.7	201.5
82.5°	55.5	111.0	128.5	145.9	150.7
85°	31.7	65.0	79.3	85.7	88.8
87.5°	14.3	23.8	31.7	31.7	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)