

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: P277066

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277066
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-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3199.7 lumens
Efficiency: N/A
Efficacy: 78.4 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

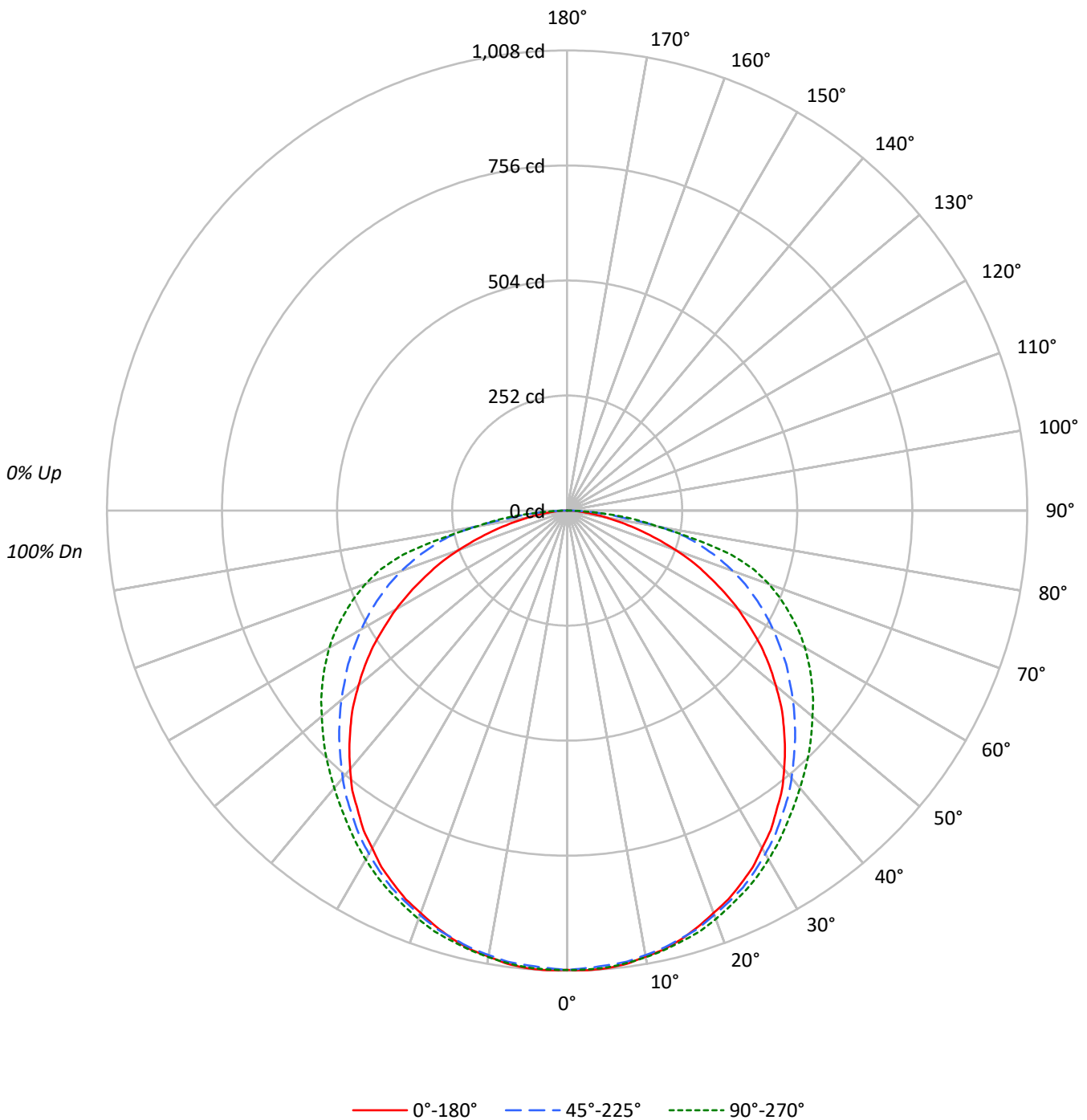
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1354	1354	1354
5°	1359	1350	1357
10°	1355	1351	1357
15°	1353	1351	1360
20°	1343	1350	1363
25°	1338	1352	1367
30°	1326	1349	1371
35°	1314	1345	1376
40°	1299	1344	1394
45°	1277	1344	1425
50°	1249	1352	1468
55°	1217	1374	1534
60°	1166	1401	1619
65°	1091	1450	1718
70°	993	1517	1848
75°	842	1601	1931
80°	664	1611	1562
85°	489	1226	1372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.0
10°-20°	274.7	8.6
20°-30°	420.1	13.1
30°-40°	513.5	16.0
40°-50°	547.3	17.1
50°-60°	523.3	16.4
60°-70°	443.3	13.9
70°-80°	297.9	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°	790.2	24.7
0°-40°	1303.7	40.7
0°-60°	2374.4	74.2
0°-90°	3199.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3199.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1006	1005	1000	1005	1005	96
15°	971	971	970	978	976	274
25°	902	905	911	919	920	415
35°	800	806	819	835	838	501
45°	671	682	706	736	749	518
55°	519	538	586	632	654	462
65°	343	378	456	516	540	340
75°	162	221	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°	1006.2	1006.2	1006.2	1006.2	1006.2
2.5°	1007.8	1007.8	1003.0	1006.2	1006.2
5°	1006.2	1004.6	999.9	1004.6	1004.6
7.5°	1001.4	999.9	996.7	1001.4	999.9
10°	991.9	991.9	988.7	993.5	993.5
12.5°	984.0	982.4	980.8	987.2	985.6
15°	971.3	971.3	969.7	977.6	976.1
17.5°	955.4	957.0	958.6	964.9	966.5
20°	938.0	941.1	942.7	952.2	952.2
22.5°	922.1	923.7	926.9	936.4	936.4
25°	901.5	904.6	911.0	918.9	920.5
27.5°	880.8	882.4	890.3	901.5	903.0
30°	853.8	858.6	868.1	880.8	882.4
32.5°	830.0	834.8	845.9	858.6	861.8
35°	799.9	806.2	818.9	834.8	838.0
37.5°	772.9	777.7	793.5	811.0	815.8
40°	739.6	749.1	765.0	785.6	793.5
42.5°	706.2	715.8	734.8	761.8	771.3
45°	671.3	682.4	706.2	736.4	749.1
47.5°	636.4	649.1	676.1	711.0	725.3
50°	596.7	612.6	645.9	685.6	701.5
52.5°	558.7	577.7	614.2	658.6	679.3
55°	519.0	538.0	585.6	631.7	653.9
57.5°	474.5	499.9	552.3	604.7	628.5
60°	433.3	457.1	520.6	577.7	601.5
62.5°	388.8	420.6	488.8	549.1	572.9
65°	342.8	377.7	455.5	515.8	539.6
67.5°	301.5	339.6	422.2	482.5	506.3
70°	252.3	300.0	385.7	446.0	469.8
72.5°	206.3	258.7	347.6	406.3	428.5
75°	161.9	220.6	307.9	360.3	371.4
77.5°	120.6	182.5	266.6	288.8	280.9
80°	85.7	146.0	207.9	196.8	201.6
82.5°	55.5	111.1	128.6	146.0	150.8
85°	31.7	65.1	79.4	85.7	88.9
87.5°	14.3	23.8	31.7	31.7	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)