

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: P391494

Luminaire Tested: **24CZ2-55VHE-RDP-UNV-L950-CD1-SDWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P391494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55VHE-RDP-UNV-L950-CD1-SDWPD1-U
Description: 2x4 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3314.1 lumens
Efficiency: N/A
Efficacy: 91.8 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

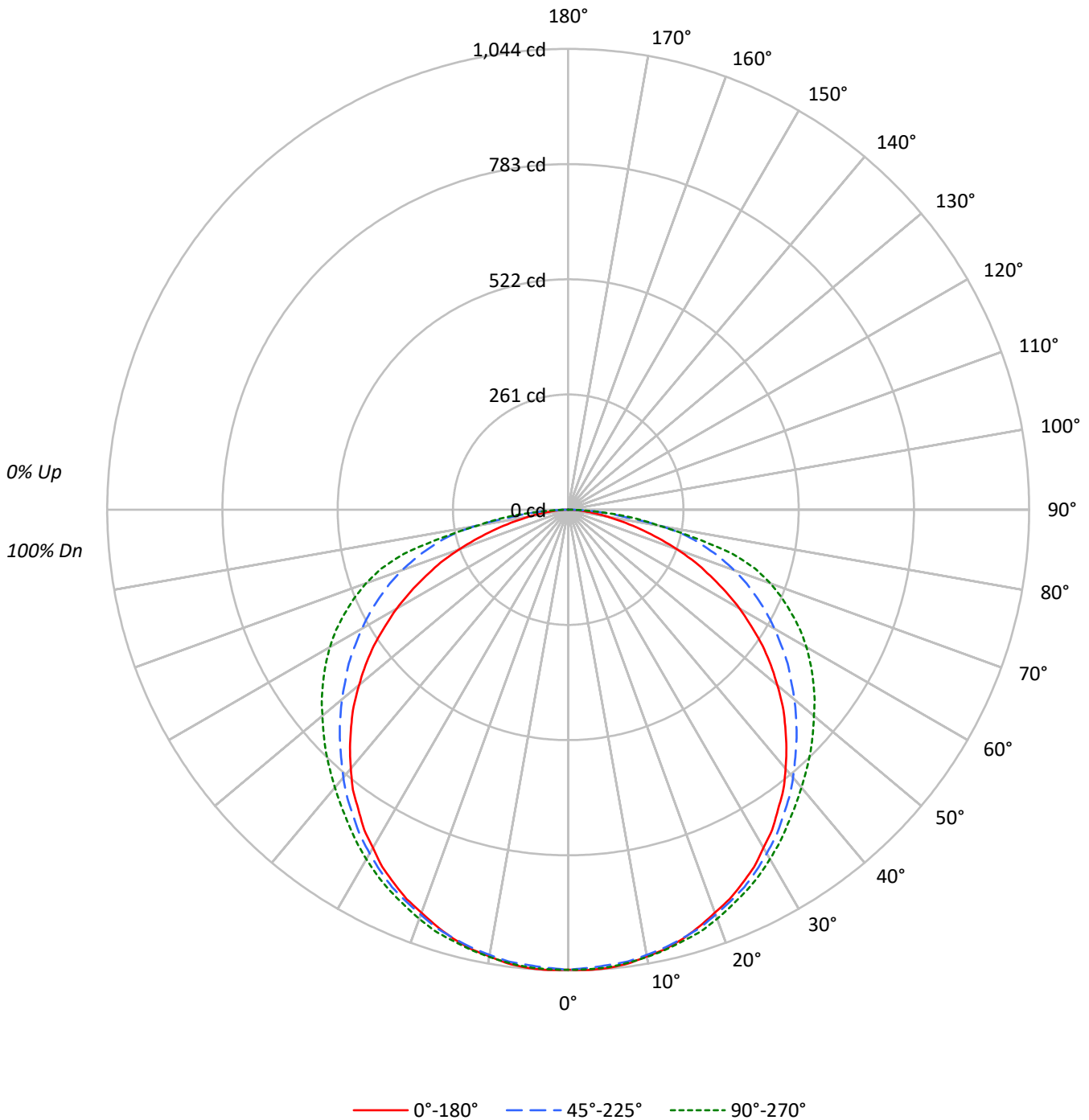
Input Watts (W): 36.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1402	1402	1402
5°	1408	1399	1405
10°	1404	1399	1406
15°	1401	1399	1408
20°	1391	1398	1412
25°	1386	1401	1415
30°	1374	1397	1420
35°	1361	1393	1426
40°	1345	1392	1444
45°	1323	1392	1476
50°	1294	1400	1521
55°	1261	1423	1589
60°	1208	1451	1676
65°	1131	1502	1779
70°	1028	1572	1914
75°	872	1658	2000
80°	688	1668	1618
85°	508	1269	1422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.0
10°-20°	284.5	8.6
20°-30°	435.1	13.1
30°-40°	531.9	16.0
40°-50°	566.9	17.1
50°-60°	542.0	16.4
60°-70°	459.2	13.9
70°-80°	308.6	9.3
80°-90°	87.1	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°	818.5	24.7
0°-40°	1350.4	40.7
0°-60°	2459.3	74.2
0°-90°	3314.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3314.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1042	1040	1036	1040	1040	99
15°	1006	1006	1004	1013	1011	284
25°	934	937	944	952	953	430
35°	828	835	848	865	868	519
45°	695	707	732	763	776	536
55°	538	557	607	654	677	479
65°	355	391	472	534	559	353
75°	168	228	319	373	385	180
85°	33	67	82	89	92	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.2	1042.2	1042.2	1042.2	1042.2
2.5°	1043.8	1043.8	1038.9	1042.2	1042.2
5°	1042.2	1040.5	1035.6	1040.5	1040.5
7.5°	1037.3	1035.6	1032.3	1037.3	1035.6
10°	1027.4	1027.4	1024.1	1029.0	1029.0
12.5°	1019.2	1017.5	1015.9	1022.5	1020.8
15°	1006.0	1006.0	1004.4	1012.6	1011.0
17.5°	989.6	991.2	992.9	999.5	1001.1
20°	971.5	974.8	976.4	986.3	986.3
22.5°	955.1	956.7	960.0	969.9	969.9
25°	933.7	937.0	943.6	951.8	953.4
27.5°	912.3	914.0	922.2	933.7	935.3
30°	884.4	889.3	899.2	912.3	914.0
32.5°	859.7	864.7	876.2	889.3	892.6
35°	828.5	835.1	848.2	864.7	867.9
37.5°	800.5	805.5	821.9	840.0	844.9
40°	766.0	775.9	792.3	813.7	821.9
42.5°	731.5	741.4	761.1	789.0	798.9
45°	695.3	706.8	731.5	762.7	775.9
47.5°	659.2	672.3	700.3	736.4	751.2
50°	618.1	634.5	669.0	710.1	726.6
52.5°	578.6	598.4	636.2	682.2	703.6
55°	537.5	557.3	606.6	654.2	677.3
57.5°	491.5	517.8	572.1	626.3	651.0
60°	448.8	473.4	539.2	598.4	623.0
62.5°	402.7	435.6	506.3	568.8	593.4
65°	355.1	391.2	471.8	534.2	558.9
67.5°	312.3	351.8	437.3	499.7	524.4
70°	261.4	310.7	399.5	461.9	486.6
72.5°	213.7	267.9	360.0	420.8	443.8
75°	167.7	228.5	318.9	373.1	384.7
77.5°	124.9	189.0	276.2	299.2	291.0
80°	88.8	151.2	215.3	203.8	208.8
82.5°	57.5	115.1	133.2	151.2	156.2
85°	32.9	67.4	82.2	88.8	92.1
87.5°	14.8	24.7	32.9	32.9	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)