

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: P277070

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277070
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-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3351.1 lumens
Efficiency: N/A
Efficacy: 79.9 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

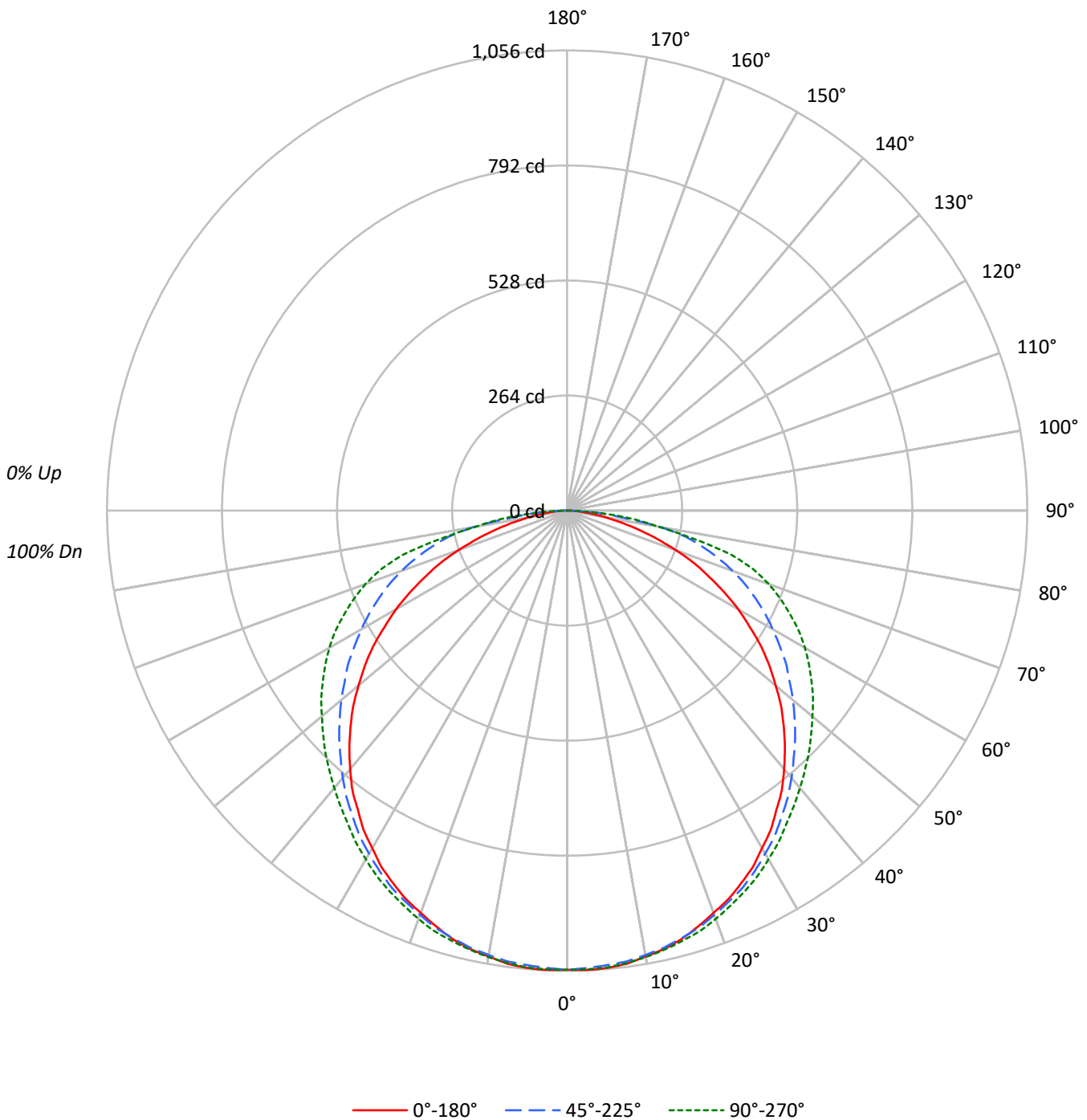
Input Watts (W): 41.943
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	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°	1418	1418	1418
5°	1423	1414	1421
10°	1419	1415	1422
15°	1417	1415	1424
20°	1407	1414	1428
25°	1402	1416	1431
30°	1389	1413	1436
35°	1376	1409	1441
40°	1361	1407	1460
45°	1338	1408	1493
50°	1308	1416	1538
55°	1275	1439	1606
60°	1221	1467	1695
65°	1143	1519	1799
70°	1040	1589	1936
75°	881	1677	2022
80°	696	1687	1636
85°	513	1283	1437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	3.0
10°-20°	287.7	8.6
20°-30°	440.0	13.1
30°-40°	537.8	16.0
40°-50°	573.2	17.1
50°-60°	548.1	16.4
60°-70°	464.3	13.9
70°-80°	312.0	9.3
80°-90°	88.0	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°	827.6	24.7
0°-40°	1365.5	40.7
0°-60°	2486.7	74.2
0°-90°	3351.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3351.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1054	1052	1047	1052	1052	100
15°	1017	1017	1016	1024	1022	287
25°	944	947	954	962	964	435
35°	838	844	858	874	878	525
45°	703	715	740	771	785	542
55°	544	564	613	662	685	484
65°	359	396	477	540	565	356
75°	170	231	322	377	389	182
85°	33	68	83	90	93	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.8	1053.8	1053.8	1053.8	1053.8
2.5°	1055.5	1055.5	1050.5	1053.8	1053.8
5°	1053.8	1052.2	1047.2	1052.2	1052.2
7.5°	1048.8	1047.2	1043.9	1048.8	1047.2
10°	1038.9	1038.9	1035.5	1040.5	1040.5
12.5°	1030.6	1028.9	1027.2	1033.9	1032.2
15°	1017.3	1017.3	1015.6	1023.9	1022.2
17.5°	1000.6	1002.3	1004.0	1010.6	1012.3
20°	982.4	985.7	987.3	997.3	997.3
22.5°	965.7	967.4	970.7	980.7	980.7
25°	944.1	947.4	954.1	962.4	964.1
27.5°	922.5	924.2	932.5	944.1	945.8
30°	894.3	899.2	909.2	922.5	924.2
32.5°	869.3	874.3	885.9	899.2	902.6
35°	837.7	844.4	857.7	874.3	877.6
37.5°	809.5	814.5	831.1	849.4	854.4
40°	774.6	784.6	801.2	822.8	831.1
42.5°	739.7	749.6	769.6	797.8	807.8
45°	703.1	714.7	739.7	771.3	784.6
47.5°	666.5	679.8	708.1	744.7	759.6
50°	625.0	641.6	676.5	718.1	734.7
52.5°	585.1	605.0	643.3	689.8	711.4
55°	543.5	563.5	613.3	661.5	684.8
57.5°	497.0	523.6	578.4	633.3	658.2
60°	453.8	478.7	545.2	605.0	630.0
62.5°	407.2	440.5	512.0	575.1	600.0
65°	359.0	395.6	477.0	540.2	565.1
67.5°	315.8	355.7	442.1	505.3	530.2
70°	264.3	314.2	403.9	467.1	492.0
72.5°	216.1	270.9	364.0	425.5	448.8
75°	169.5	231.0	322.5	377.3	389.0
77.5°	126.3	191.2	279.2	302.5	294.2
80°	89.8	152.9	217.7	206.1	211.1
82.5°	58.2	116.4	134.6	152.9	157.9
85°	33.2	68.1	83.1	89.8	93.1
87.5°	15.0	24.9	33.2	33.2	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)