

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: P263594

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263594
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-LD5-55-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3541.0 lumens
Efficiency: N/A
Efficacy: 86.1 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

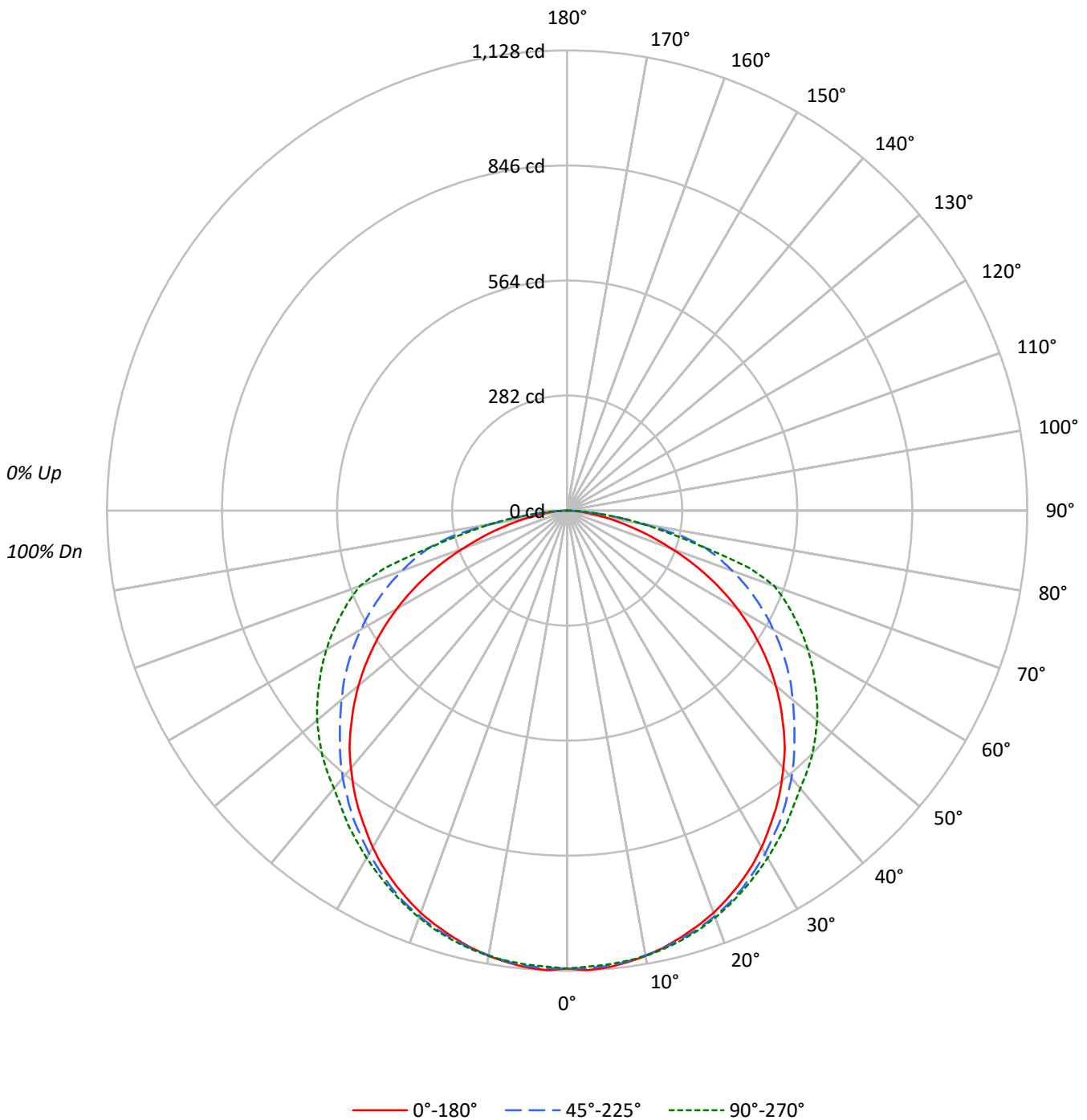
Input Watts (W): 41.125158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1510	1510	1510
5°	1519	1514	1509
10°	1515	1512	1515
15°	1508	1513	1517
20°	1502	1515	1520
25°	1493	1514	1522
30°	1481	1508	1527
35°	1466	1506	1540
40°	1448	1503	1561
45°	1426	1499	1615
50°	1397	1510	1675
55°	1358	1537	1742
60°	1299	1571	1834
65°	1210	1621	1953
70°	1070	1694	2126
75°	897	1812	1785
80°	716	1432	1485
85°	565	968	888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.0
10°-20°	306.4	8.7
20°-30°	468.0	13.2
30°-40°	572.2	16.2
40°-50°	612.5	17.3
50°-60°	587.5	16.6
60°-70°	496.0	14.0
70°-80°	317.0	9.0
80°-90°	75.0	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°	880.9	24.9
0°-40°	1453.1	41.0
0°-60°	2653.0	74.9
0°-90°	3541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1124	1117	1121	1119	1117	107
15°	1082	1079	1086	1089	1089	306
25°	1006	1004	1020	1023	1025	464
35°	892	899	917	929	938	558
45°	750	762	788	824	849	578
55°	579	598	655	715	742	516
65°	380	417	509	580	614	375
75°	173	246	349	356	343	186
85°	37	61	63	61	58	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1127.7	1120.8	1122.5	1122.5	1119.0
5°	1124.3	1117.3	1120.8	1119.0	1117.3
7.5°	1117.3	1112.1	1115.5	1115.5	1113.8
10°	1108.6	1103.3	1106.8	1108.6	1108.6
12.5°	1096.4	1092.9	1098.1	1098.1	1099.9
15°	1082.4	1078.9	1085.9	1089.4	1089.4
17.5°	1066.7	1065.0	1073.7	1075.5	1077.2
20°	1049.3	1047.6	1058.0	1058.0	1061.5
22.5°	1028.4	1026.6	1040.6	1040.6	1044.1
25°	1005.7	1004.0	1019.7	1023.2	1024.9
27.5°	981.3	979.6	995.3	1000.5	1004.0
30°	953.4	953.4	970.9	977.8	983.1
32.5°	922.1	927.3	943.0	953.4	960.4
35°	892.4	899.4	916.8	929.0	937.8
37.5°	859.3	866.3	885.5	901.1	911.6
40°	824.5	833.2	855.8	873.3	888.9
42.5°	789.6	798.3	822.7	848.9	869.8
45°	749.5	761.7	787.9	824.5	848.9
47.5°	709.4	721.6	754.7	800.1	824.5
50°	667.6	681.5	721.6	773.9	800.1
52.5°	624.0	639.7	690.2	746.0	772.2
55°	578.7	597.9	655.4	714.6	742.5
57.5°	531.6	552.5	620.5	683.3	712.9
60°	482.8	509.0	583.9	650.2	681.5
62.5°	432.3	463.6	547.3	615.3	648.4
65°	380.0	416.6	509.0	580.4	613.5
67.5°	325.9	374.8	470.6	545.6	578.7
70°	271.9	329.4	430.5	507.2	540.3
72.5°	221.4	287.6	390.4	461.9	468.9
75°	172.6	245.8	348.6	355.6	343.4
77.5°	129.0	203.9	287.6	256.2	254.5
80°	92.4	163.8	184.8	190.0	191.7
82.5°	61.0	123.8	120.3	123.8	122.0
85°	36.6	61.0	62.7	61.0	57.5
87.5°	17.4	22.7	17.4	15.7	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)