

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: P263510

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263510
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-LD5-45-RDP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3304.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

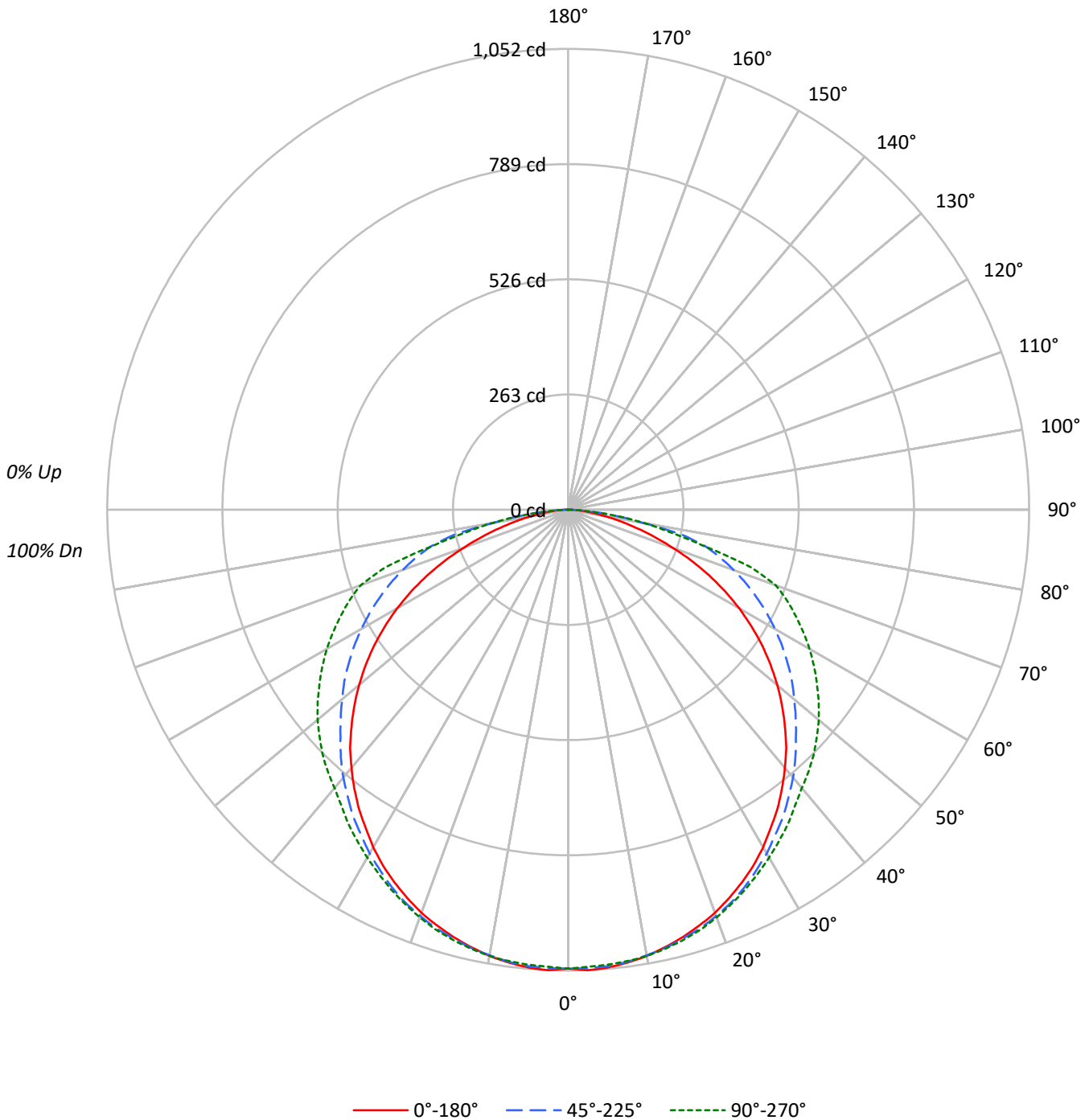
Input Watts (W): 32.974266
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	1409	1409	1409
5°	1417	1412	1408
10°	1413	1411	1413
15°	1407	1411	1416
20°	1402	1414	1418
25°	1393	1412	1420
30°	1382	1407	1425
35°	1368	1405	1437
40°	1351	1403	1457
45°	1331	1399	1507
50°	1304	1409	1563
55°	1267	1434	1625
60°	1212	1466	1711
65°	1129	1512	1823
70°	998	1580	1983
75°	837	1691	1666
80°	668	1336	1386
85°	528	905	829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.0
10°-20°	285.9	8.7
20°-30°	436.7	13.2
30°-40°	533.9	16.2
40°-50°	571.5	17.3
50°-60°	548.1	16.6
60°-70°	462.8	14.0
70°-80°	295.8	9.0
80°-90°	70.0	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°	821.9	24.9
0°-40°	1355.8	41.0
0°-60°	2475.4	74.9
0°-90°	3304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1049	1042	1046	1044	1042	100
15°	1010	1007	1013	1016	1016	285
25°	938	937	951	955	956	433
35°	833	839	856	867	875	521
45°	699	711	735	769	792	539
55°	540	558	612	667	693	482
65°	355	389	475	542	572	350
75°	161	229	325	332	320	173
85°	34	57	59	57	54	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.4	1047.4	1047.4	1047.4	1047.4
2.5°	1052.3	1045.8	1047.4	1047.4	1044.1
5°	1049.0	1042.5	1045.8	1044.1	1042.5
7.5°	1042.5	1037.6	1040.9	1040.9	1039.3
10°	1034.4	1029.5	1032.8	1034.4	1034.4
12.5°	1023.0	1019.7	1024.6	1024.6	1026.3
15°	1010.0	1006.7	1013.2	1016.5	1016.5
17.5°	995.4	993.7	1001.9	1003.5	1005.1
20°	979.1	977.5	987.2	987.2	990.5
22.5°	959.6	957.9	971.0	971.0	974.2
25°	938.4	936.8	951.4	954.7	956.3
27.5°	915.7	914.0	928.7	933.5	936.8
30°	889.6	889.6	905.9	912.4	917.3
32.5°	860.4	865.2	879.9	889.6	896.1
35°	832.7	839.2	855.5	866.9	875.0
37.5°	801.8	808.3	826.2	840.8	850.6
40°	769.3	777.4	798.6	814.8	829.5
42.5°	736.8	744.9	767.7	792.1	811.6
45°	699.3	710.7	735.1	769.3	792.1
47.5°	661.9	673.3	704.2	746.5	769.3
50°	622.9	635.9	673.3	722.1	746.5
52.5°	582.2	596.9	644.1	696.1	720.5
55°	540.0	557.9	611.5	666.8	692.8
57.5°	496.0	515.6	579.0	637.5	665.2
60°	450.5	474.9	544.8	606.6	635.9
62.5°	403.3	432.6	510.7	574.1	605.0
65°	354.6	388.7	474.9	541.6	572.5
67.5°	304.1	349.7	439.1	509.1	540.0
70°	253.7	307.4	401.7	473.3	504.2
72.5°	206.6	268.4	364.3	431.0	437.5
75°	161.0	229.3	325.3	331.8	320.4
77.5°	120.4	190.3	268.4	239.1	237.5
80°	86.2	152.9	172.4	177.3	178.9
82.5°	56.9	115.5	112.2	115.5	113.8
85°	34.2	56.9	58.6	56.9	53.7
87.5°	16.3	21.1	16.3	14.6	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)