

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: P263683

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263683
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-LD5-50-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3597.0 lumens
Efficiency: N/A
Efficacy: 98.4 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

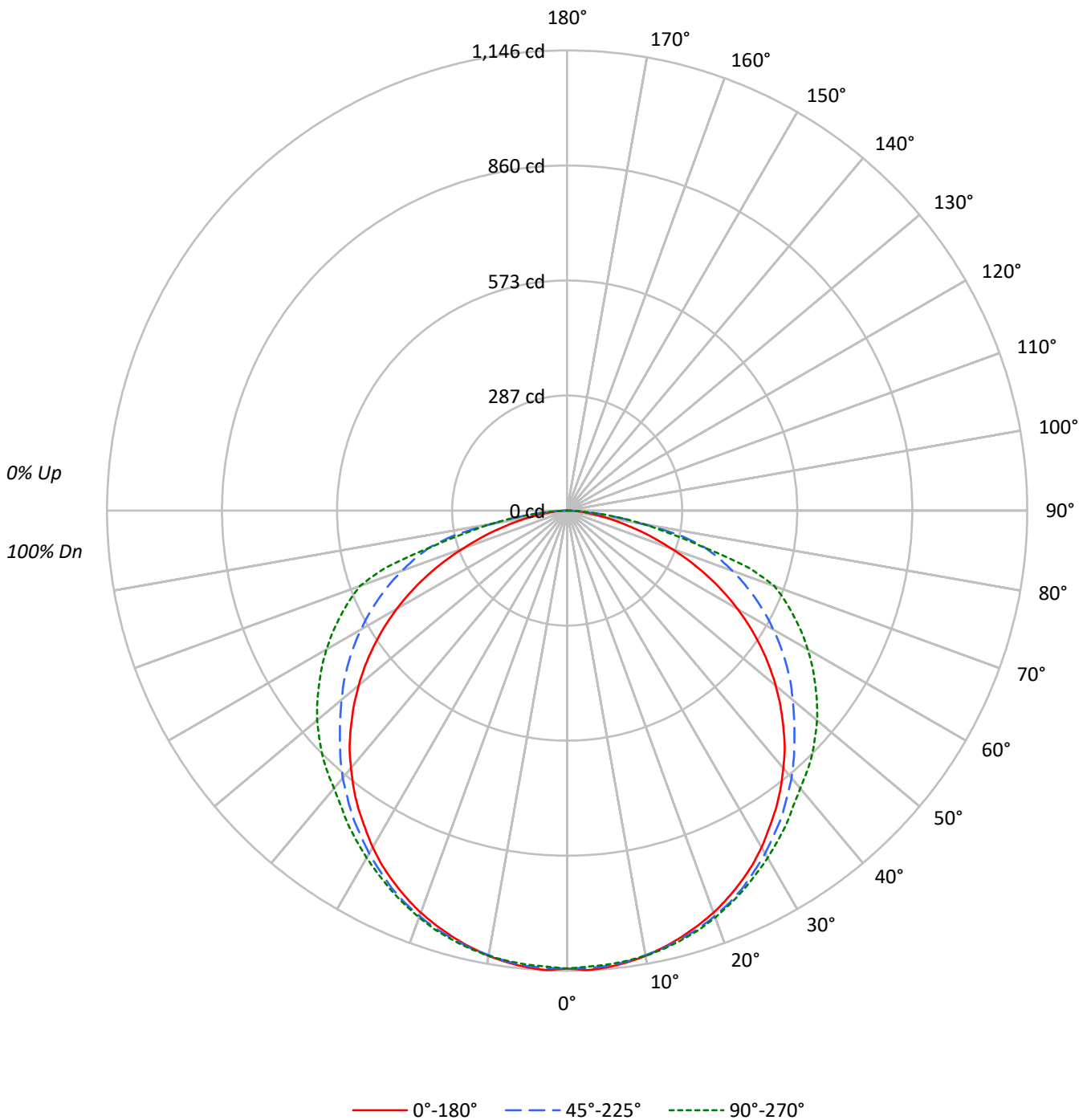
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27					27			
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1534	1534	1534
5°	1542	1538	1533
10°	1539	1536	1539
15°	1532	1537	1541
20°	1526	1539	1544
25°	1517	1538	1546
30°	1505	1532	1551
35°	1489	1530	1565
40°	1471	1527	1586
45°	1449	1523	1641
50°	1419	1534	1701
55°	1379	1562	1769
60°	1320	1596	1863
65°	1229	1646	1984
70°	1087	1720	2159
75°	911	1841	1813
80°	727	1454	1509
85°	574	983	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	3.0
10°-20°	311.3	8.7
20°-30°	475.4	13.2
30°-40°	581.2	16.2
40°-50°	622.1	17.3
50°-60°	596.8	16.6
60°-70°	503.9	14.0
70°-80°	322.0	9.0
80°-90°	76.2	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°	894.8	24.9
0°-40°	1476.1	41.0
0°-60°	2694.9	74.9
0°-90°	3597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1142	1135	1138	1137	1135	108
15°	1100	1096	1103	1107	1107	310
25°	1022	1020	1036	1039	1041	471
35°	907	914	931	944	953	567
45°	761	774	800	838	862	587
55°	588	607	666	726	754	525
65°	386	423	517	590	623	381
75°	175	250	354	361	349	189
85°	37	62	64	62	58	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.3	1140.3	1140.3	1140.3	1140.3
2.5°	1145.6	1138.5	1140.3	1140.3	1136.7
5°	1142.0	1135.0	1138.5	1136.7	1135.0
7.5°	1135.0	1129.7	1133.2	1133.2	1131.4
10°	1126.1	1120.8	1124.3	1126.1	1126.1
12.5°	1113.7	1110.2	1115.5	1115.5	1117.3
15°	1099.6	1096.0	1103.1	1106.6	1106.6
17.5°	1083.6	1081.8	1090.7	1092.5	1094.2
20°	1065.9	1064.1	1074.8	1074.8	1078.3
22.5°	1044.7	1042.9	1057.1	1057.1	1060.6
25°	1021.6	1019.9	1035.8	1039.4	1041.1
27.5°	996.9	995.1	1011.0	1016.3	1019.9
30°	968.5	968.5	986.2	993.3	998.6
32.5°	936.7	942.0	957.9	968.5	975.6
35°	906.6	913.6	931.3	943.7	952.6
37.5°	872.9	880.0	899.5	915.4	926.0
40°	837.5	846.4	869.4	887.1	903.0
42.5°	802.1	810.9	835.7	862.3	883.5
45°	761.4	773.8	800.3	837.5	862.3
47.5°	720.6	733.0	766.7	812.7	837.5
50°	678.1	692.3	733.0	786.2	812.7
52.5°	633.9	649.8	701.2	757.8	784.4
55°	587.8	607.3	665.8	726.0	754.3
57.5°	540.0	561.3	630.3	694.1	724.2
60°	490.5	517.0	593.2	660.4	692.3
62.5°	439.1	471.0	556.0	625.0	658.7
65°	386.0	423.2	517.0	589.6	623.3
67.5°	331.1	380.7	478.1	554.2	587.8
70°	276.2	334.6	437.3	515.3	548.9
72.5°	224.9	292.2	396.6	469.2	476.3
75°	175.3	249.7	354.1	361.2	348.8
77.5°	131.0	207.2	292.2	260.3	258.5
80°	93.8	166.4	187.7	193.0	194.8
82.5°	62.0	125.7	122.2	125.7	123.9
85°	37.2	62.0	63.7	62.0	58.4
87.5°	17.7	23.0	17.7	15.9	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)