

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: P263833

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263833
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-LD5-60-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3587.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

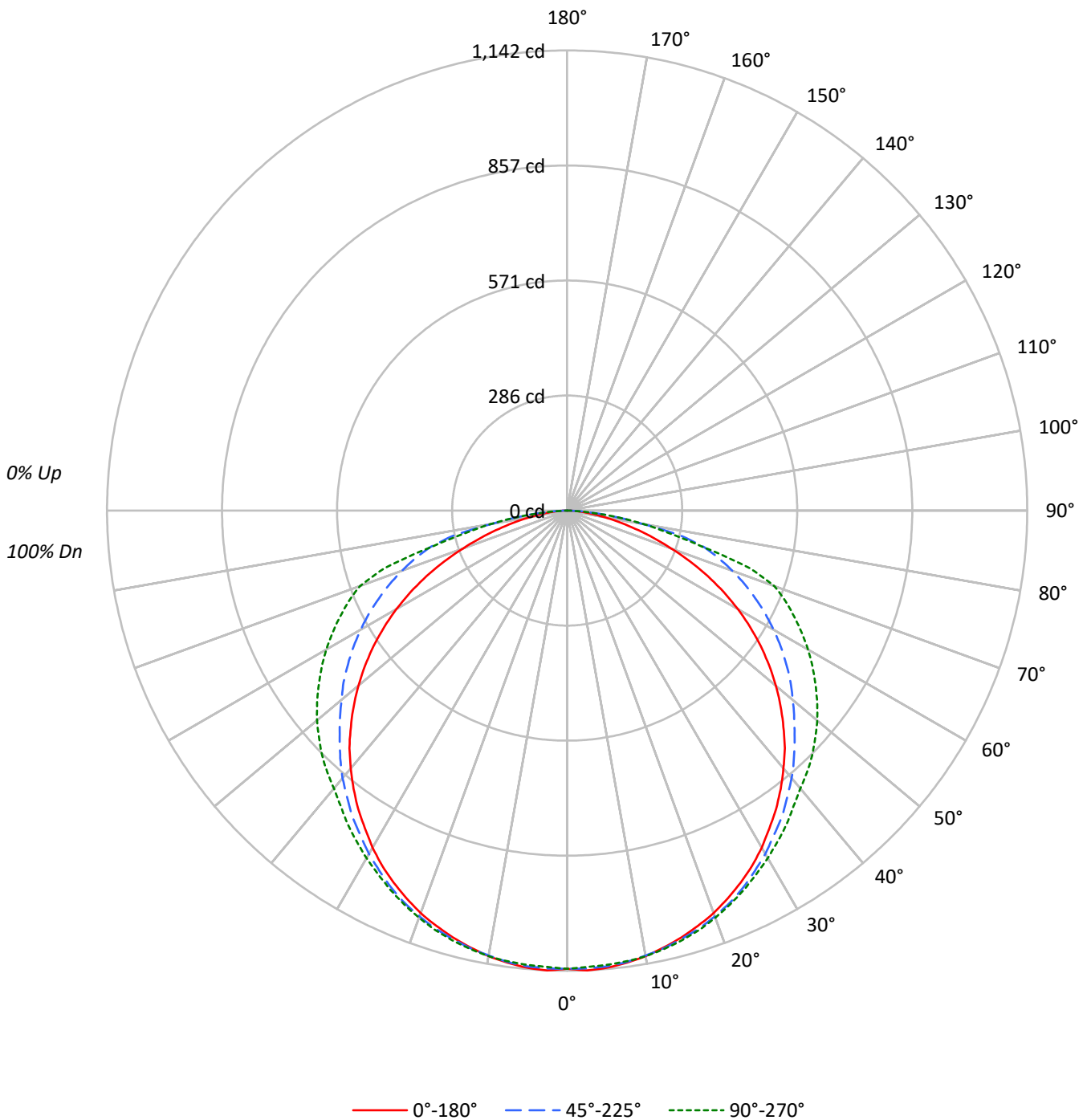
Input Watts (W): 44.361
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	1530	1530	1530
5°	1538	1533	1529
10°	1534	1532	1534
15°	1527	1532	1537
20°	1522	1535	1540
25°	1512	1533	1541
30°	1501	1528	1547
35°	1485	1526	1560
40°	1467	1523	1582
45°	1445	1519	1636
50°	1416	1530	1697
55°	1375	1557	1765
60°	1316	1592	1858
65°	1225	1642	1979
70°	1083	1716	2153
75°	909	1836	1808
80°	725	1450	1505
85°	573	982	900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.0
10°-20°	310.4	8.7
20°-30°	474.1	13.2
30°-40°	579.6	16.2
40°-50°	620.4	17.3
50°-60°	595.1	16.6
60°-70°	502.5	14.0
70°-80°	321.1	9.0
80°-90°	76.0	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°	892.3	24.9
0°-40°	1472.0	41.0
0°-60°	2687.5	74.9
0°-90°	3587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1139	1132	1135	1134	1132	108
15°	1096	1093	1100	1104	1104	310
25°	1019	1017	1033	1036	1038	470
35°	904	911	929	941	950	565
45°	759	772	798	835	860	586
55°	586	606	664	724	752	523
65°	385	422	516	588	622	380
75°	175	249	353	360	348	188
85°	37	62	64	62	58	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.1	1137.1	1137.1	1137.1	1137.1
2.5°	1142.4	1135.3	1137.1	1137.1	1133.6
5°	1138.9	1131.8	1135.3	1133.6	1131.8
7.5°	1131.8	1126.5	1130.0	1130.0	1128.3
10°	1123.0	1117.7	1121.2	1123.0	1123.0
12.5°	1110.6	1107.1	1112.4	1112.4	1114.2
15°	1096.5	1093.0	1100.0	1103.6	1103.6
17.5°	1080.6	1078.8	1087.7	1089.4	1091.2
20°	1062.9	1061.2	1071.8	1071.8	1075.3
22.5°	1041.8	1040.0	1054.1	1054.1	1057.7
25°	1018.8	1017.0	1032.9	1036.5	1038.2
27.5°	994.1	992.3	1008.2	1013.5	1017.0
30°	965.8	965.8	983.5	990.6	995.9
32.5°	934.1	939.4	955.2	965.8	972.9
35°	904.0	911.1	928.8	941.1	949.9
37.5°	870.5	877.6	897.0	912.9	923.5
40°	835.2	844.0	867.0	884.6	900.5
42.5°	799.9	808.7	833.4	859.9	881.1
45°	759.2	771.6	798.1	835.2	859.9
47.5°	718.6	731.0	764.5	810.5	835.2
50°	676.3	690.4	731.0	784.0	810.5
52.5°	632.1	648.0	699.2	755.7	782.2
55°	586.2	605.6	663.9	723.9	752.2
57.5°	538.5	559.7	628.6	692.2	722.2
60°	489.1	515.6	591.5	658.6	690.4
62.5°	437.9	469.7	554.4	623.3	656.8
65°	384.9	422.0	515.6	588.0	621.5
67.5°	330.2	379.6	476.7	552.7	586.2
70°	275.4	333.7	436.1	513.8	547.4
72.5°	224.2	291.3	395.5	467.9	475.0
75°	174.8	249.0	353.1	360.2	347.8
77.5°	130.7	206.6	291.3	259.6	257.8
80°	93.6	166.0	187.2	192.5	194.2
82.5°	61.8	125.4	121.8	125.4	123.6
85°	37.1	61.8	63.6	61.8	58.3
87.5°	17.7	23.0	17.7	15.9	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)