

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: P263685

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263685
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3642.0 lumens
Efficiency: N/A
Efficacy: 99.1 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

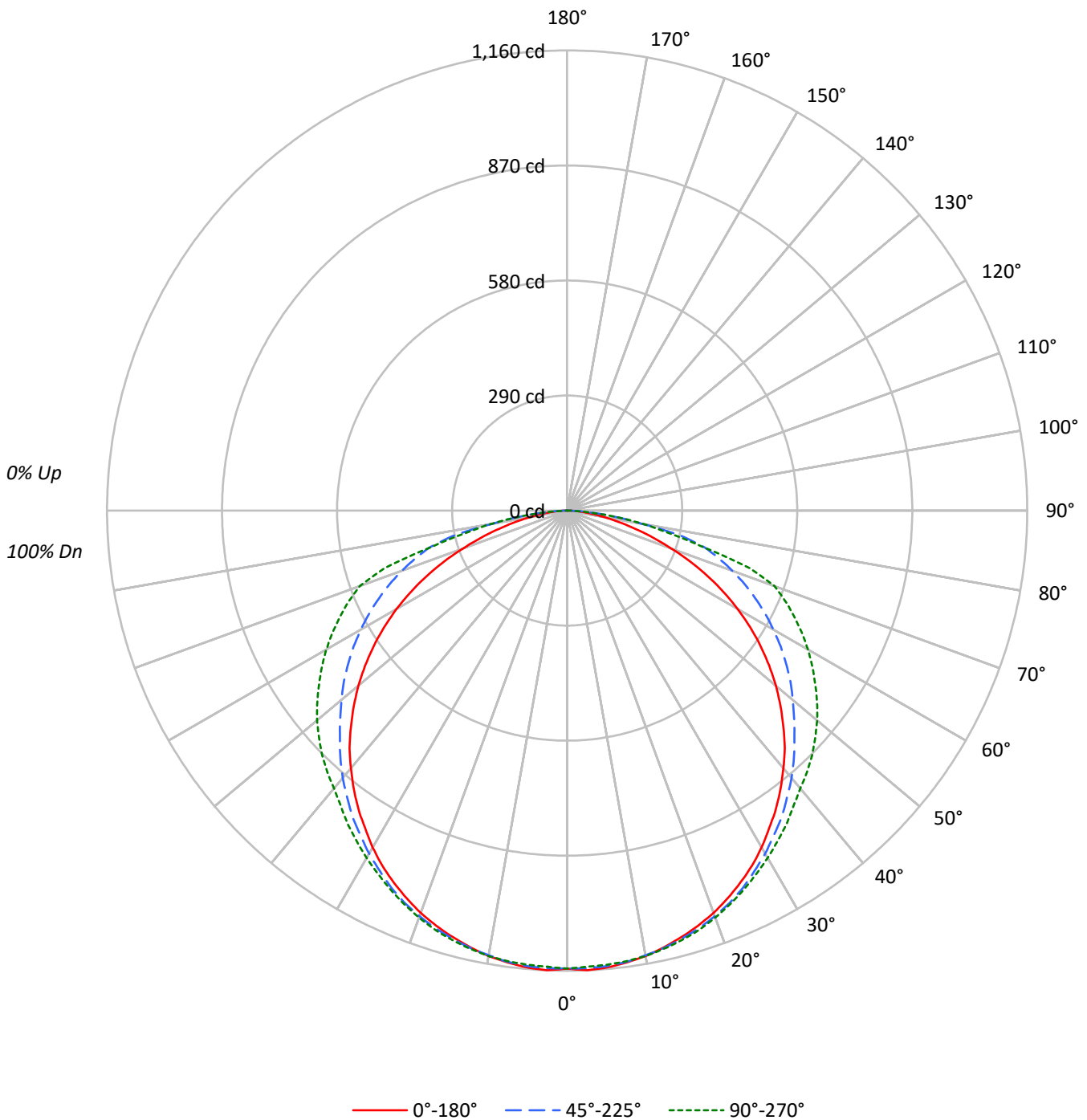
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1553	1553	1553
5°	1562	1557	1552
10°	1558	1555	1558
15°	1551	1556	1561
20°	1545	1558	1563
25°	1536	1557	1565
30°	1523	1551	1571
35°	1508	1549	1584
40°	1489	1546	1606
45°	1467	1542	1661
50°	1437	1554	1723
55°	1396	1581	1791
60°	1336	1616	1886
65°	1244	1667	2009
70°	1100	1742	2186
75°	923	1864	1836
80°	736	1472	1528
85°	580	996	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.0
10°-20°	315.1	8.7
20°-30°	481.4	13.2
30°-40°	588.5	16.2
40°-50°	629.9	17.3
50°-60°	604.2	16.6
60°-70°	510.2	14.0
70°-80°	326.1	9.0
80°-90°	77.1	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°	906.0	24.9
0°-40°	1494.5	41.0
0°-60°	2728.7	74.9
0°-90°	3642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1156	1149	1153	1151	1149	110
15°	1113	1110	1117	1120	1120	314
25°	1034	1033	1049	1052	1054	477
35°	918	925	943	956	964	574
45°	771	783	810	848	873	595
55°	595	615	674	735	764	531
65°	391	428	524	597	631	385
75°	178	253	359	366	353	191
85°	38	63	64	63	59	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.5	1154.5	1154.5	1154.5	1154.5
2.5°	1159.9	1152.8	1154.5	1154.5	1151.0
5°	1156.3	1149.2	1152.8	1151.0	1149.2
7.5°	1149.2	1143.8	1147.4	1147.4	1145.6
10°	1140.2	1134.8	1138.4	1140.2	1140.2
12.5°	1127.7	1124.1	1129.4	1129.4	1131.2
15°	1113.3	1109.7	1116.9	1120.5	1120.5
17.5°	1097.2	1095.4	1104.3	1106.1	1107.9
20°	1079.2	1077.5	1088.2	1088.2	1091.8
22.5°	1057.7	1055.9	1070.3	1070.3	1073.9
25°	1034.4	1032.6	1048.8	1052.4	1054.1
27.5°	1009.3	1007.5	1023.7	1029.1	1032.6
30°	980.6	980.6	998.6	1005.7	1011.1
32.5°	948.4	953.8	969.9	980.6	987.8
35°	917.9	925.1	943.0	955.5	964.5
37.5°	883.8	891.0	910.7	926.9	937.6
40°	848.0	856.9	880.3	898.2	914.3
42.5°	812.1	821.1	846.2	873.1	894.6
45°	770.9	783.4	810.3	848.0	873.1
47.5°	729.7	742.2	776.3	822.9	848.0
50°	686.6	701.0	742.2	796.0	822.9
52.5°	641.8	657.9	709.9	767.3	794.2
55°	595.2	614.9	674.1	735.0	763.7
57.5°	546.8	568.3	638.2	702.8	733.2
60°	496.6	523.5	600.6	668.7	701.0
62.5°	444.6	476.9	562.9	632.8	666.9
65°	390.8	428.5	523.5	597.0	631.1
67.5°	335.2	385.4	484.0	561.1	595.2
70°	279.7	338.8	442.8	521.7	555.8
72.5°	227.7	295.8	401.6	475.1	482.3
75°	177.5	252.8	358.6	365.7	353.2
77.5°	132.7	209.8	295.8	263.5	261.7
80°	95.0	168.5	190.0	195.4	197.2
82.5°	62.7	127.3	123.7	127.3	125.5
85°	37.6	62.7	64.5	62.7	59.2
87.5°	17.9	23.3	17.9	16.1	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)