

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: P263187

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-SQP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3631.5 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

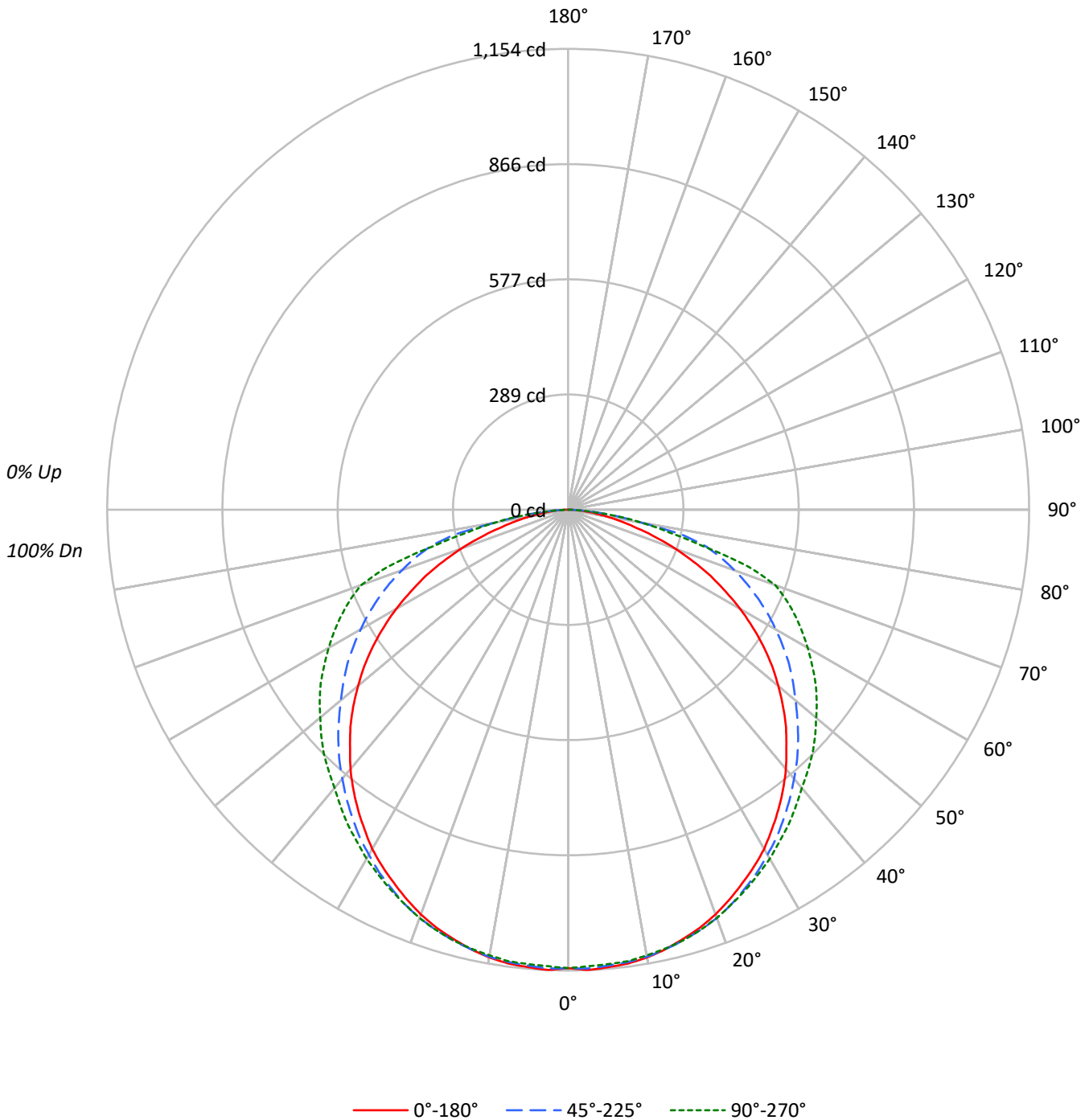
Input Watts (W): 54.895203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1545	1545	1545
5°	1553	1548	1543
10°	1556	1553	1548
15°	1550	1555	1555
20°	1544	1558	1558
25°	1532	1554	1559
30°	1524	1550	1568
35°	1507	1547	1581
40°	1489	1545	1598
45°	1467	1549	1645
50°	1437	1555	1696
55°	1399	1584	1773
60°	1338	1615	1863
65°	1254	1666	1995
70°	1122	1742	2170
75°	926	1863	1794
80°	755	1439	1454
85°	608	956	897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.0
10°-20°	314.6	8.7
20°-30°	480.8	13.2
30°-40°	588.1	16.2
40°-50°	629.3	17.3
50°-60°	602.6	16.6
60°-70°	509.7	14.0
70°-80°	323.1	8.9
80°-90°	74.3	2.0
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°	904.5	24.9
0°-40°	1492.6	41.1
0°-60°	2724.4	75.0
0°-90°	3631.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3631.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1150	1144	1146	1144	1142	109
15°	1112	1110	1116	1116	1116	314
25°	1032	1032	1047	1050	1050	476
35°	917	923	942	955	962	574
45°	771	784	814	848	865	594
55°	596	615	675	732	756	532
65°	394	431	523	595	626	388
75°	178	251	358	356	345	194
85°	39	60	62	56	58	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.0	1148.0	1148.0	1148.0	1148.0
2.5°	1153.6	1148.0	1149.9	1148.0	1144.2
5°	1149.9	1144.2	1146.1	1144.2	1142.4
7.5°	1146.1	1140.5	1142.4	1140.5	1140.5
10°	1138.6	1133.0	1136.7	1134.9	1133.0
12.5°	1127.4	1123.6	1127.4	1125.5	1125.5
15°	1112.4	1110.5	1116.1	1116.1	1116.1
17.5°	1097.3	1095.5	1103.0	1103.0	1103.0
20°	1078.6	1076.7	1088.0	1088.0	1088.0
22.5°	1056.1	1054.2	1069.2	1069.2	1069.2
25°	1031.7	1031.7	1046.7	1050.4	1050.4
27.5°	1007.3	1007.3	1024.2	1029.8	1029.8
30°	981.0	981.0	997.9	1005.4	1009.2
32.5°	949.2	952.9	971.7	981.0	984.8
35°	917.3	922.9	941.7	954.8	962.3
37.5°	883.5	889.1	911.6	926.6	936.0
40°	847.9	855.4	879.8	898.5	909.8
42.5°	808.5	819.7	847.9	872.2	887.3
45°	771.0	784.1	814.1	847.9	864.7
47.5°	729.7	744.7	778.5	821.6	838.5
50°	686.5	701.6	742.8	791.6	810.3
52.5°	643.4	660.3	709.1	761.6	784.1
55°	596.5	615.3	675.3	731.6	755.9
57.5°	547.7	570.2	637.8	697.8	724.1
60°	497.1	525.2	600.3	664.0	692.2
62.5°	444.6	478.3	562.7	630.3	660.3
65°	393.9	431.4	523.3	594.6	626.5
67.5°	339.5	386.4	484.0	560.9	590.9
70°	285.1	339.5	442.7	521.5	551.5
72.5°	230.7	296.4	401.4	472.7	472.7
75°	178.2	251.4	358.3	356.4	345.1
77.5°	135.1	210.1	294.5	251.4	253.2
80°	97.5	168.8	185.7	185.7	187.6
82.5°	65.7	129.4	120.1	118.2	121.9
85°	39.4	60.0	61.9	56.3	58.1
87.5°	18.8	20.6	16.9	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)