

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: P263433

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263433
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-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4230.0 lumens
Efficiency: N/A
Efficacy: 77.4 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

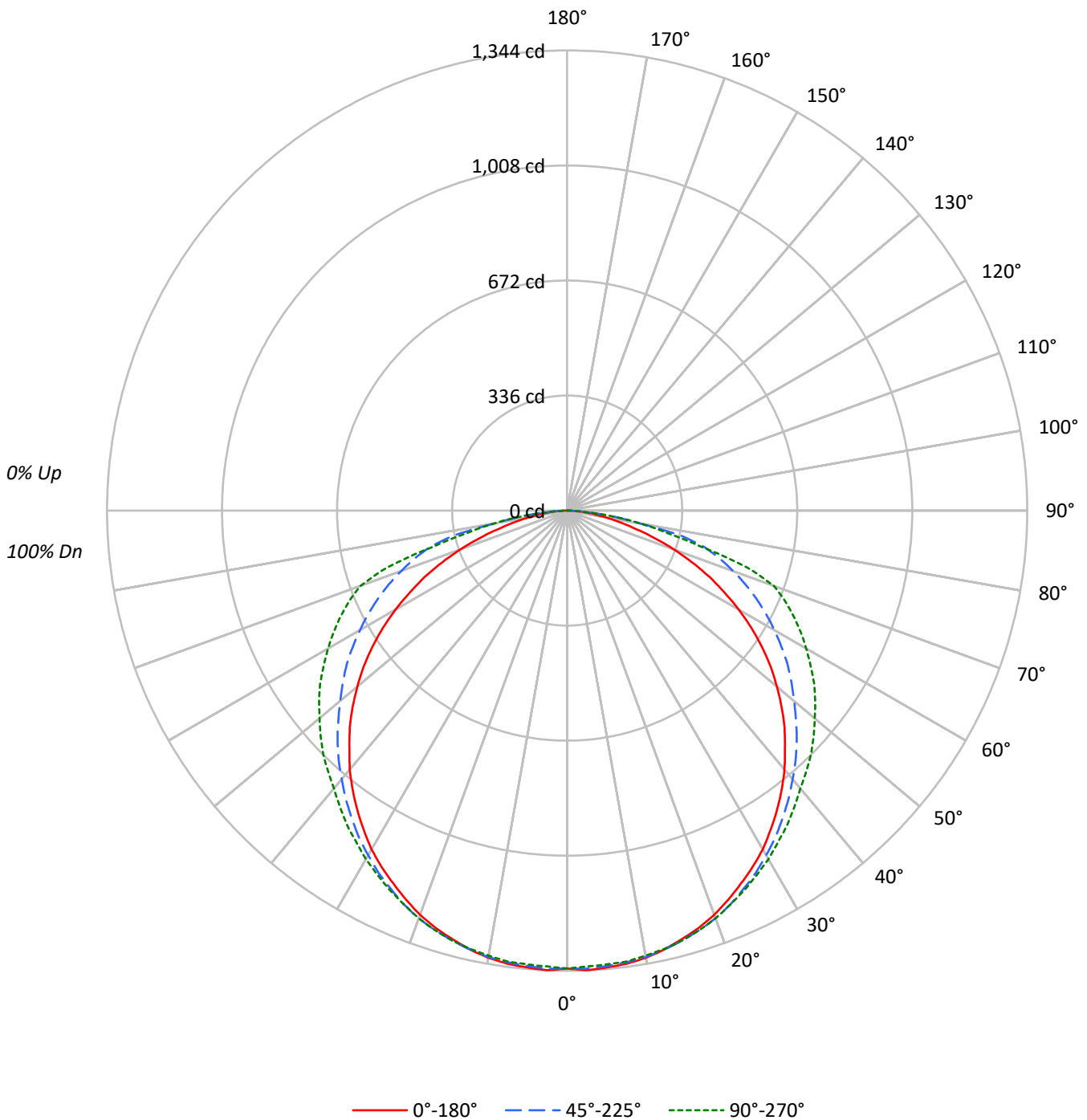
Input Watts (W): 54.684
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1799	1799	1799
5°	1809	1803	1797
10°	1812	1809	1803
15°	1805	1811	1811
20°	1799	1815	1815
25°	1784	1810	1817
30°	1775	1806	1826
35°	1755	1802	1841
40°	1735	1800	1861
45°	1709	1804	1917
50°	1674	1811	1976
55°	1630	1845	2065
60°	1558	1882	2169
65°	1461	1941	2323
70°	1306	2028	2527
75°	1079	2169	2090
80°	880	1676	1693
85°	709	1113	1045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	3.0
10°-20°	366.5	8.7
20°-30°	560.1	13.2
30°-40°	685.0	16.2
40°-50°	732.9	17.3
50°-60°	701.9	16.6
60°-70°	593.7	14.0
70°-80°	376.3	8.9
80°-90°	86.6	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°	1053.5	24.9
0°-40°	1738.5	41.1
0°-60°	3173.3	75.0
0°-90°	4230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1339	1333	1335	1333	1331	127
15°	1296	1294	1300	1300	1300	366
25°	1202	1202	1219	1224	1224	554
35°	1068	1075	1097	1112	1121	668
45°	898	913	948	988	1007	692
55°	695	717	787	852	880	620
65°	459	502	610	693	730	452
75°	208	293	417	415	402	226
85°	46	70	72	66	68	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.2	1337.2	1337.2	1337.2	1337.2
2.5°	1343.7	1337.2	1339.4	1337.2	1332.8
5°	1339.4	1332.8	1335.0	1332.8	1330.6
7.5°	1335.0	1328.4	1330.6	1328.4	1328.4
10°	1326.3	1319.7	1324.1	1321.9	1319.7
12.5°	1313.1	1308.8	1313.1	1311.0	1311.0
15°	1295.7	1293.5	1300.0	1300.0	1300.0
17.5°	1278.2	1276.0	1284.7	1284.7	1284.7
20°	1256.3	1254.2	1267.3	1267.3	1267.3
22.5°	1230.1	1227.9	1245.4	1245.4	1245.4
25°	1201.7	1201.7	1219.2	1223.6	1223.6
27.5°	1173.3	1173.3	1193.0	1199.5	1199.5
30°	1142.7	1142.7	1162.4	1171.1	1175.5
32.5°	1105.6	1109.9	1131.8	1142.7	1147.1
35°	1068.4	1075.0	1096.8	1112.1	1120.9
37.5°	1029.1	1035.7	1061.9	1079.4	1090.3
40°	987.6	996.3	1024.7	1046.6	1059.7
42.5°	941.7	954.8	987.6	1016.0	1033.5
45°	898.0	913.3	948.3	987.6	1007.3
47.5°	849.9	867.4	906.7	957.0	976.7
50°	799.7	817.2	865.2	922.0	943.9
52.5°	749.4	769.1	825.9	887.1	913.3
55°	694.8	716.7	786.6	852.1	880.5
57.5°	638.0	664.2	742.9	812.8	843.4
60°	579.0	611.8	699.2	773.5	806.2
62.5°	517.8	557.2	655.5	734.1	769.1
65°	458.8	502.5	609.6	692.6	729.8
67.5°	395.5	450.1	563.7	653.3	688.3
70°	332.1	395.5	515.6	607.4	642.4
72.5°	268.7	345.2	467.6	550.6	550.6
75°	207.6	292.8	417.3	415.1	402.0
77.5°	157.3	244.7	343.0	292.8	295.0
80°	113.6	196.6	216.3	216.3	218.5
82.5°	76.5	150.8	139.8	137.7	142.0
85°	45.9	69.9	72.1	65.5	67.7
87.5°	21.8	24.0	19.7	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)