

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: P263295

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263295
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-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4407.0 lumens
Efficiency: N/A
Efficacy: 82.7 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

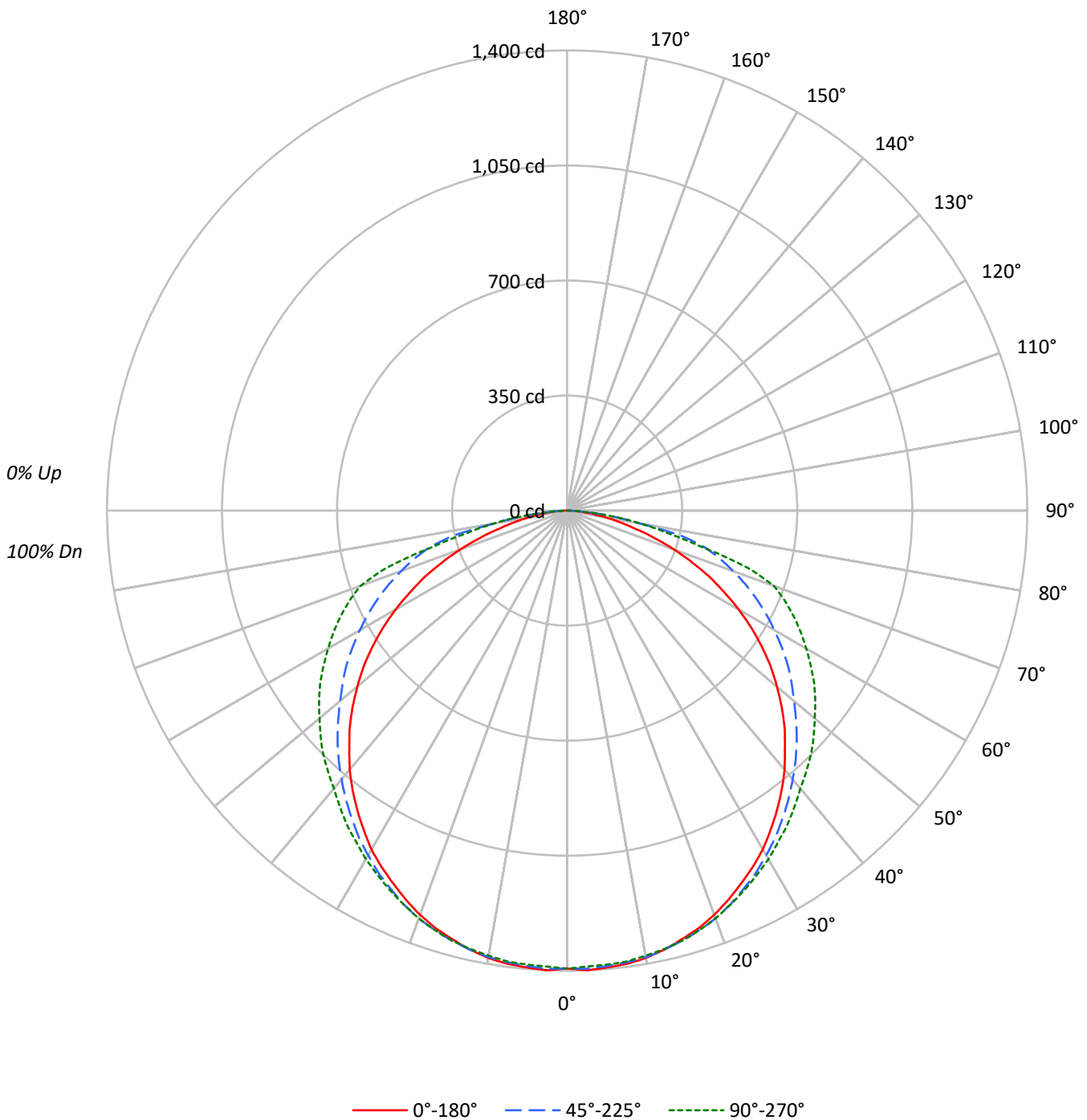
Input Watts (W): 53.289
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1874	1874	1874
5°	1885	1879	1872
10°	1888	1885	1878
15°	1880	1887	1887
20°	1874	1890	1890
25°	1859	1886	1893
30°	1850	1881	1903
35°	1828	1877	1918
40°	1807	1875	1939
45°	1780	1880	1997
50°	1744	1887	2058
55°	1698	1922	2152
60°	1623	1960	2260
65°	1522	2022	2421
70°	1361	2113	2633
75°	1124	2260	2178
80°	917	1746	1764
85°	738	1159	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	3.0
10°-20°	381.8	8.7
20°-30°	583.5	13.2
30°-40°	713.7	16.2
40°-50°	763.6	17.3
50°-60°	731.2	16.6
60°-70°	618.6	14.0
70°-80°	392.1	8.9
80°-90°	90.2	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°	1097.6	24.9
0°-40°	1811.3	41.1
0°-60°	3306.1	75.0
0°-90°	4407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1395	1389	1391	1389	1386	133
15°	1350	1348	1354	1354	1354	381
25°	1252	1252	1270	1275	1275	578
35°	1113	1120	1143	1159	1168	696
45°	936	952	988	1029	1049	721
55°	724	747	820	888	917	646
65°	478	524	635	722	760	471
75°	216	305	435	432	419	235
85°	48	73	75	68	71	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.1	1393.1	1393.1	1393.1	1393.1
2.5°	1400.0	1393.1	1395.4	1393.1	1388.6
5°	1395.4	1388.6	1390.9	1388.6	1386.3
7.5°	1390.9	1384.0	1386.3	1384.0	1384.0
10°	1381.8	1374.9	1379.5	1377.2	1374.9
12.5°	1368.1	1363.5	1368.1	1365.8	1365.8
15°	1349.9	1347.6	1354.4	1354.4	1354.4
17.5°	1331.7	1329.4	1338.5	1338.5	1338.5
20°	1308.9	1306.6	1320.3	1320.3	1320.3
22.5°	1281.6	1279.3	1297.5	1297.5	1297.5
25°	1252.0	1252.0	1270.2	1274.8	1274.8
27.5°	1222.4	1222.4	1242.9	1249.7	1249.7
30°	1190.5	1190.5	1211.0	1220.1	1224.7
32.5°	1151.8	1156.4	1179.2	1190.5	1195.1
35°	1113.1	1120.0	1142.7	1158.7	1167.8
37.5°	1072.2	1079.0	1106.3	1124.5	1135.9
40°	1028.9	1038.0	1067.6	1090.4	1104.0
42.5°	981.1	994.8	1028.9	1058.5	1076.7
45°	935.6	951.5	987.9	1028.9	1049.4
47.5°	885.5	903.7	944.7	997.0	1017.5
50°	833.1	851.4	901.4	960.6	983.4
52.5°	780.8	801.3	860.5	924.2	951.5
55°	723.9	746.6	819.5	887.8	917.4
57.5°	664.7	692.0	774.0	846.8	878.7
60°	603.2	637.4	728.4	805.8	840.0
62.5°	539.5	580.5	682.9	764.9	801.3
65°	478.0	523.6	635.1	721.6	760.3
67.5°	412.0	468.9	587.3	680.6	717.1
70°	346.0	412.0	537.2	632.8	669.3
72.5°	280.0	359.7	487.1	573.6	617.1
75°	216.3	305.0	434.8	521.6	573.6
77.5°	163.9	255.0	374.4	473.6	530.3
80°	118.4	204.9	325.4	425.4	487.6
82.5°	79.7	157.1	275.7	373.4	444.0
85°	47.8	72.8	175.1	278.3	400.6
87.5°	22.8	25.0	100.5	137.7	213.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)