

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: P263298

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263298
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4742.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

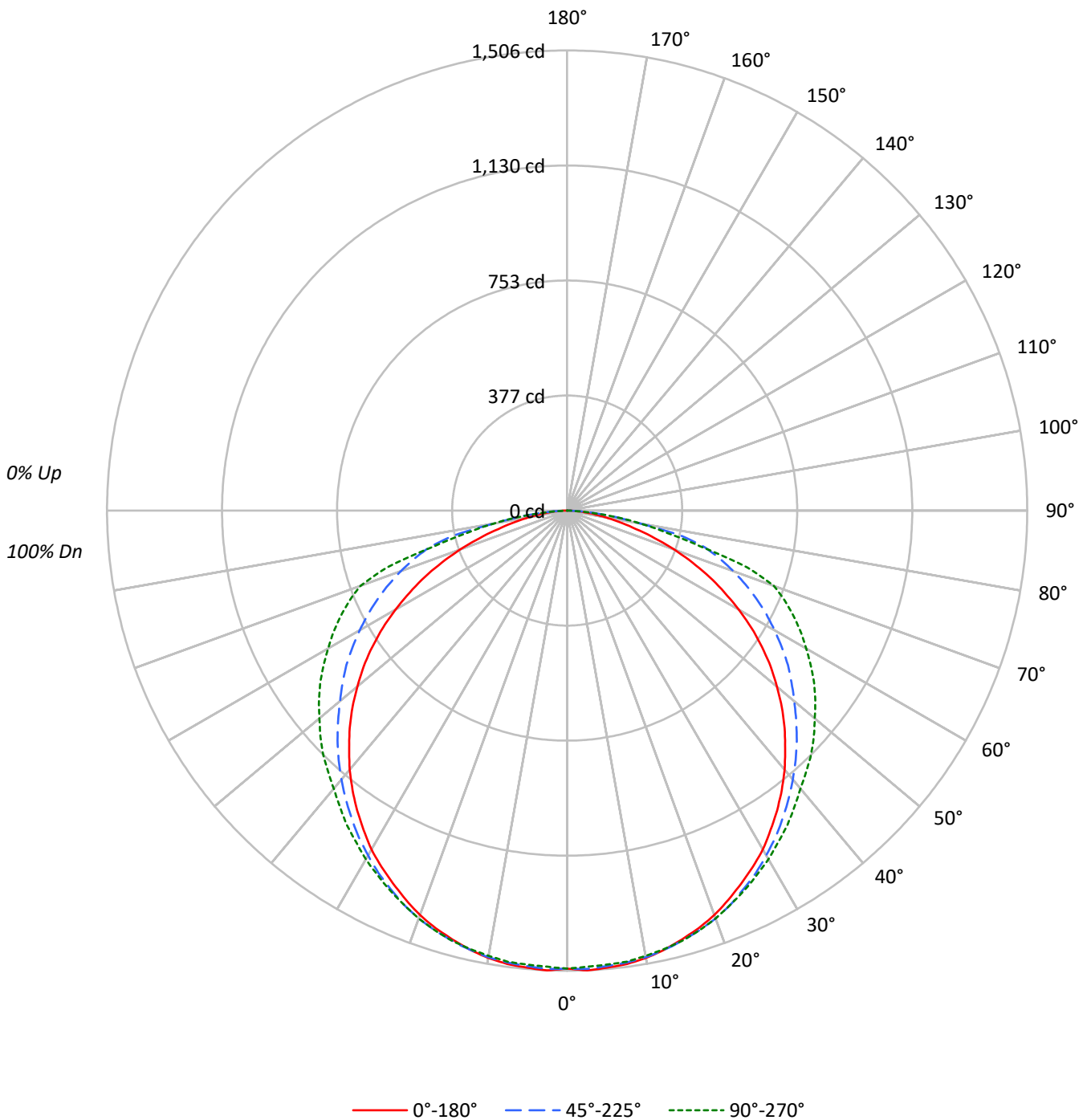
Input Watts (W): 54.684
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2017	2017	2017
5°	2028	2021	2015
10°	2031	2028	2021
15°	2023	2030	2030
20°	2017	2034	2034
25°	2000	2029	2036
30°	1990	2025	2047
35°	1967	2020	2064
40°	1945	2018	2087
45°	1916	2023	2149
50°	1877	2030	2215
55°	1827	2069	2316
60°	1747	2109	2432
65°	1638	2176	2605
70°	1465	2274	2833
75°	1210	2432	2343
80°	987	1879	1898
85°	794	1247	1172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.0
10°-20°	410.8	8.7
20°-30°	627.9	13.2
30°-40°	767.9	16.2
40°-50°	821.7	17.3
50°-60°	786.8	16.6
60°-70°	665.6	14.0
70°-80°	421.9	8.9
80°-90°	97.0	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°	1181.1	24.9
0°-40°	1949.0	41.1
0°-60°	3557.5	75.0
0°-90°	4742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1502	1494	1497	1494	1492	143
15°	1452	1450	1457	1457	1457	410
25°	1347	1347	1367	1372	1372	622
35°	1198	1205	1230	1247	1256	749
45°	1007	1024	1063	1107	1129	776
55°	779	803	882	955	987	695
65°	514	563	683	776	818	507
75°	233	328	468	465	451	253
85°	51	78	81	74	76	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.0	1499.0	1499.0	1499.0	1499.0
2.5°	1506.4	1499.0	1501.5	1499.0	1494.1
5°	1501.5	1494.1	1496.6	1494.1	1491.7
7.5°	1496.6	1489.2	1491.7	1489.2	1489.2
10°	1486.8	1479.4	1484.3	1481.9	1479.4
12.5°	1472.1	1467.2	1472.1	1469.6	1469.6
15°	1452.5	1450.0	1457.4	1457.4	1457.4
17.5°	1432.9	1430.5	1440.2	1440.2	1440.2
20°	1408.4	1406.0	1420.7	1420.7	1420.7
22.5°	1379.0	1376.6	1396.2	1396.2	1396.2
25°	1347.2	1347.2	1366.8	1371.7	1371.7
27.5°	1315.3	1315.3	1337.4	1344.7	1344.7
30°	1281.0	1281.0	1303.1	1312.9	1317.8
32.5°	1239.4	1244.3	1268.8	1281.0	1285.9
35°	1197.8	1205.1	1229.6	1246.7	1256.5
37.5°	1153.7	1161.0	1190.4	1210.0	1222.3
40°	1107.1	1116.9	1148.8	1173.3	1188.0
42.5°	1055.7	1070.4	1107.1	1139.0	1158.6
45°	1006.7	1023.9	1063.0	1107.1	1129.2
47.5°	952.8	972.4	1016.5	1072.8	1094.9
50°	896.5	916.1	970.0	1033.6	1058.1
52.5°	840.1	862.2	925.9	994.5	1023.9
55°	778.9	803.4	881.8	955.3	987.1
57.5°	715.2	744.6	832.8	911.2	945.5
60°	649.1	685.8	783.8	867.1	903.8
62.5°	580.5	624.6	734.8	823.0	862.2
65°	514.4	563.4	683.4	776.5	818.1
67.5°	443.3	504.6	631.9	732.4	771.6
70°	372.3	443.3	578.1	680.9	720.1
72.5°	301.3	387.0	524.2	617.2	617.2
75°	232.7	328.2	467.8	465.4	450.7
77.5°	176.4	274.3	384.6	328.2	330.7
80°	127.4	220.4	242.5	242.5	244.9
82.5°	85.7	169.0	156.8	154.3	159.2
85°	51.4	78.4	80.8	73.5	75.9
87.5°	24.5	26.9	22.0	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)