

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: P263704

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263704
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-LD5-60-RDP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4382.0 lumens
Efficiency: N/A
Efficacy: 94.8 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

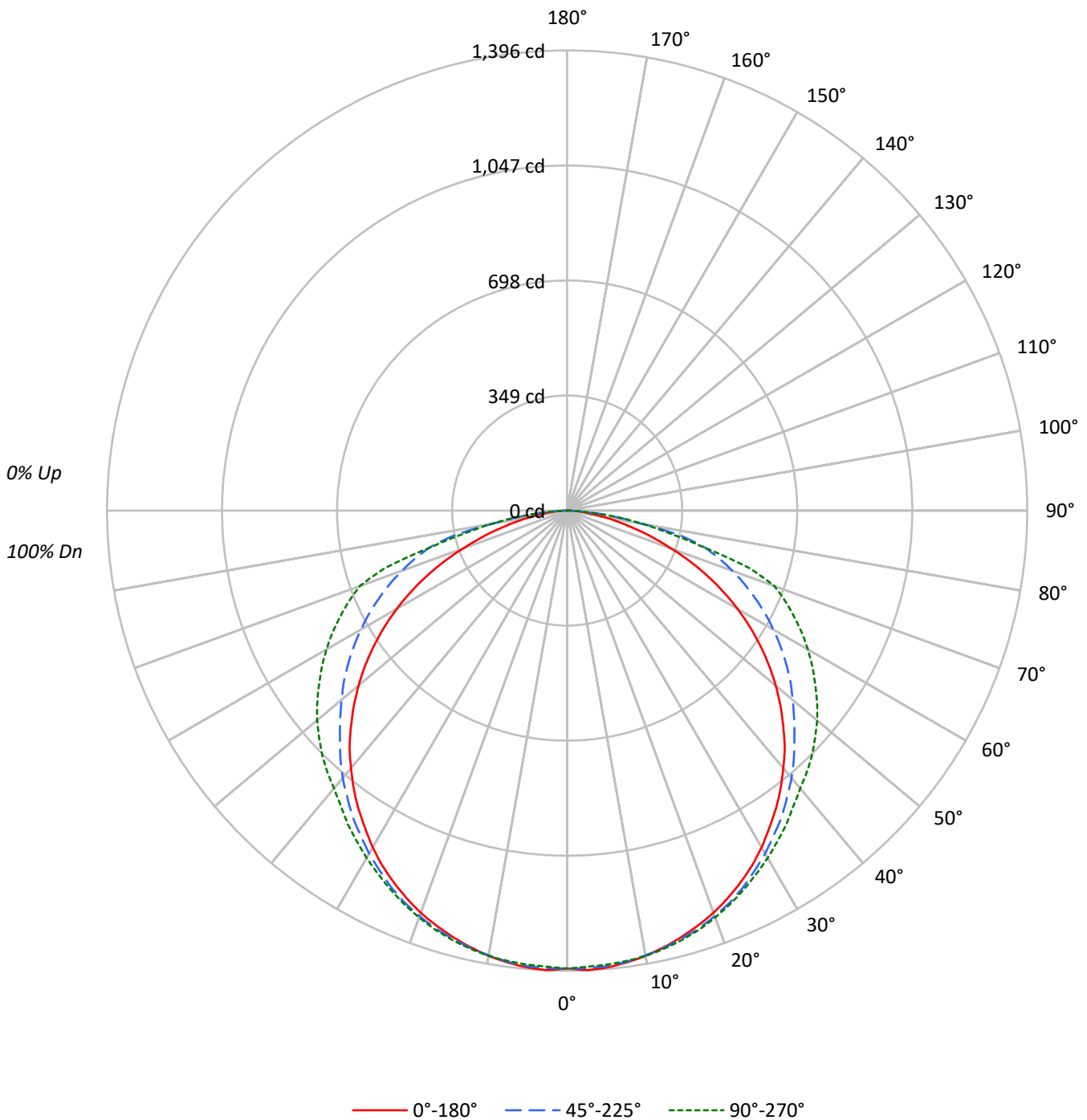
Input Watts (W): 46.221
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1869	1869	1869
5°	1879	1873	1868
10°	1874	1871	1874
15°	1866	1872	1878
20°	1859	1875	1881
25°	1848	1873	1883
30°	1833	1867	1890
35°	1814	1864	1906
40°	1792	1860	1932
45°	1765	1855	1999
50°	1729	1869	2072
55°	1680	1902	2156
60°	1608	1945	2270
65°	1497	2005	2417
70°	1324	2096	2631
75°	1110	2243	2209
80°	886	1771	1839
85°	699	1200	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.0
10°-20°	379.2	8.7
20°-30°	579.2	13.2
30°-40°	708.1	16.2
40°-50°	757.9	17.3
50°-60°	727.0	16.6
60°-70°	613.8	14.0
70°-80°	392.3	9.0
80°-90°	92.8	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°	1090.1	24.9
0°-40°	1798.2	41.0
0°-60°	3283.1	74.9
0°-90°	4382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1391	1383	1387	1385	1383	132
15°	1340	1335	1344	1348	1348	378
25°	1245	1242	1262	1266	1268	574
35°	1104	1113	1135	1150	1160	690
45°	928	943	975	1020	1050	715
55°	716	740	811	884	919	639
65°	470	516	630	718	759	464
75°	214	304	431	440	425	230
85°	45	76	78	76	71	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.1	1389.1	1389.1	1389.1	1389.1
2.5°	1395.6	1387.0	1389.1	1389.1	1384.8
5°	1391.3	1382.7	1387.0	1384.8	1382.7
7.5°	1382.7	1376.2	1380.5	1380.5	1378.3
10°	1371.9	1365.4	1369.7	1371.9	1371.9
12.5°	1356.8	1352.5	1358.9	1358.9	1361.1
15°	1339.5	1335.2	1343.8	1348.1	1348.1
17.5°	1320.1	1317.9	1328.7	1330.9	1333.0
20°	1298.5	1296.4	1309.3	1309.3	1313.6
22.5°	1272.7	1270.5	1287.7	1287.7	1292.1
25°	1244.6	1242.5	1261.9	1266.2	1268.3
27.5°	1214.4	1212.3	1231.7	1238.1	1242.5
30°	1179.9	1179.9	1201.5	1210.1	1216.6
32.5°	1141.1	1147.5	1167.0	1179.9	1188.5
35°	1104.4	1113.0	1134.6	1149.7	1160.5
37.5°	1063.4	1072.0	1095.8	1115.2	1128.1
40°	1020.3	1031.1	1059.1	1080.7	1100.1
42.5°	977.1	987.9	1018.1	1050.5	1076.4
45°	927.5	942.6	975.0	1020.3	1050.5
47.5°	877.9	893.0	934.0	990.1	1020.3
50°	826.1	843.4	893.0	957.7	990.1
52.5°	772.2	791.6	854.2	923.2	955.6
55°	716.1	739.9	811.0	884.4	918.9
57.5°	657.9	683.8	767.9	845.6	882.2
60°	597.5	629.9	722.6	804.6	843.4
62.5°	534.9	573.8	677.3	761.4	802.4
65°	470.2	515.5	629.9	718.3	759.3
67.5°	403.4	463.8	582.4	675.2	716.1
70°	336.5	407.7	532.8	627.7	668.7
72.5°	273.9	355.9	483.2	571.6	580.2
75°	213.5	304.1	431.4	440.0	424.9
77.5°	159.6	252.4	355.9	317.1	314.9
80°	114.3	202.8	228.6	235.1	237.3
82.5°	75.5	153.1	148.8	153.1	151.0
85°	45.3	75.5	77.7	75.5	71.2
87.5°	21.6	28.0	21.6	19.4	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)