

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: P263703

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263703
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4371.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

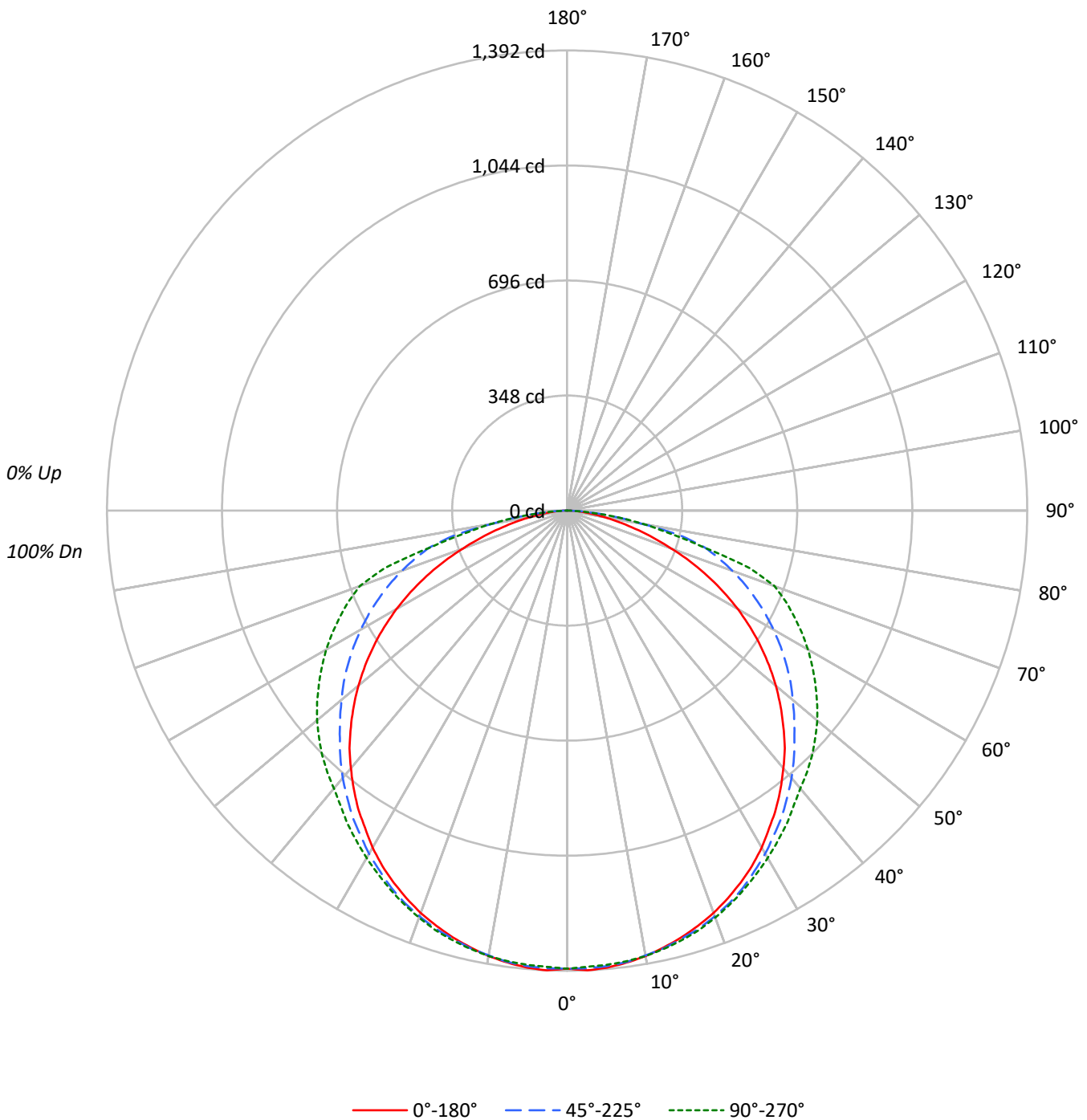
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	1864	1864	1864
5°	1874	1869	1863
10°	1870	1867	1870
15°	1861	1867	1873
20°	1855	1870	1876
25°	1843	1869	1878
30°	1828	1862	1885
35°	1809	1859	1901
40°	1788	1855	1927
45°	1760	1850	1994
50°	1725	1865	2067
55°	1676	1898	2150
60°	1604	1940	2264
65°	1493	2000	2411
70°	1321	2091	2624
75°	1107	2237	2204
80°	883	1767	1834
85°	698	1196	1096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.0
10°-20°	378.2	8.7
20°-30°	577.7	13.2
30°-40°	706.3	16.2
40°-50°	756.0	17.3
50°-60°	725.2	16.6
60°-70°	612.3	14.0
70°-80°	391.3	9.0
80°-90°	92.6	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°	1087.4	24.9
0°-40°	1793.7	41.0
0°-60°	3274.9	74.9
0°-90°	4371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1388	1379	1384	1381	1379	132
15°	1336	1332	1340	1345	1345	377
25°	1242	1239	1259	1263	1265	572
35°	1102	1110	1132	1147	1158	689
45°	925	940	972	1018	1048	714
55°	714	738	809	882	917	637
65°	469	514	628	716	757	463
75°	213	303	430	439	424	229
85°	45	75	78	75	71	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.6	1385.6	1385.6	1385.6	1385.6
2.5°	1392.1	1383.5	1385.6	1385.6	1381.3
5°	1387.8	1379.2	1383.5	1381.3	1379.2
7.5°	1379.2	1372.7	1377.0	1377.0	1374.9
10°	1368.4	1362.0	1366.3	1368.4	1368.4
12.5°	1353.4	1349.1	1355.5	1355.5	1357.7
15°	1336.2	1331.9	1340.5	1344.8	1344.8
17.5°	1316.8	1314.6	1325.4	1327.5	1329.7
20°	1295.3	1293.1	1306.0	1306.0	1310.3
22.5°	1269.5	1267.3	1284.5	1284.5	1288.8
25°	1241.5	1239.3	1258.7	1263.0	1265.2
27.5°	1211.4	1209.2	1228.6	1235.0	1239.3
30°	1176.9	1176.9	1198.5	1207.1	1213.5
32.5°	1138.2	1144.7	1164.0	1176.9	1185.5
35°	1101.6	1110.2	1131.8	1146.8	1157.6
37.5°	1060.7	1069.4	1093.0	1112.4	1125.3
40°	1017.7	1028.5	1056.4	1078.0	1097.3
42.5°	974.7	985.4	1015.6	1047.8	1073.7
45°	925.2	940.3	972.5	1017.7	1047.8
47.5°	875.7	890.8	931.7	987.6	1017.7
50°	824.1	841.3	890.8	955.3	987.6
52.5°	770.3	789.6	852.0	920.9	953.2
55°	714.3	738.0	809.0	882.2	916.6
57.5°	656.2	682.1	766.0	843.4	880.0
60°	596.0	628.3	720.8	802.6	841.3
62.5°	533.6	572.3	675.6	759.5	800.4
65°	469.1	514.2	628.3	716.5	757.4
67.5°	402.4	462.6	580.9	673.5	714.3
70°	335.7	406.7	531.5	626.1	667.0
72.5°	273.3	355.0	482.0	570.2	578.8
75°	213.0	303.4	430.3	438.9	423.9
77.5°	159.2	251.7	355.0	316.3	314.1
80°	114.0	202.3	228.1	234.5	236.7
82.5°	75.3	152.8	148.5	152.8	150.6
85°	45.2	75.3	77.5	75.3	71.0
87.5°	21.5	28.0	21.5	19.4	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)