

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: P263730

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263730
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-LD5-75-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: 5462.0 lumens
Efficiency: N/A
Efficacy: 90.9 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

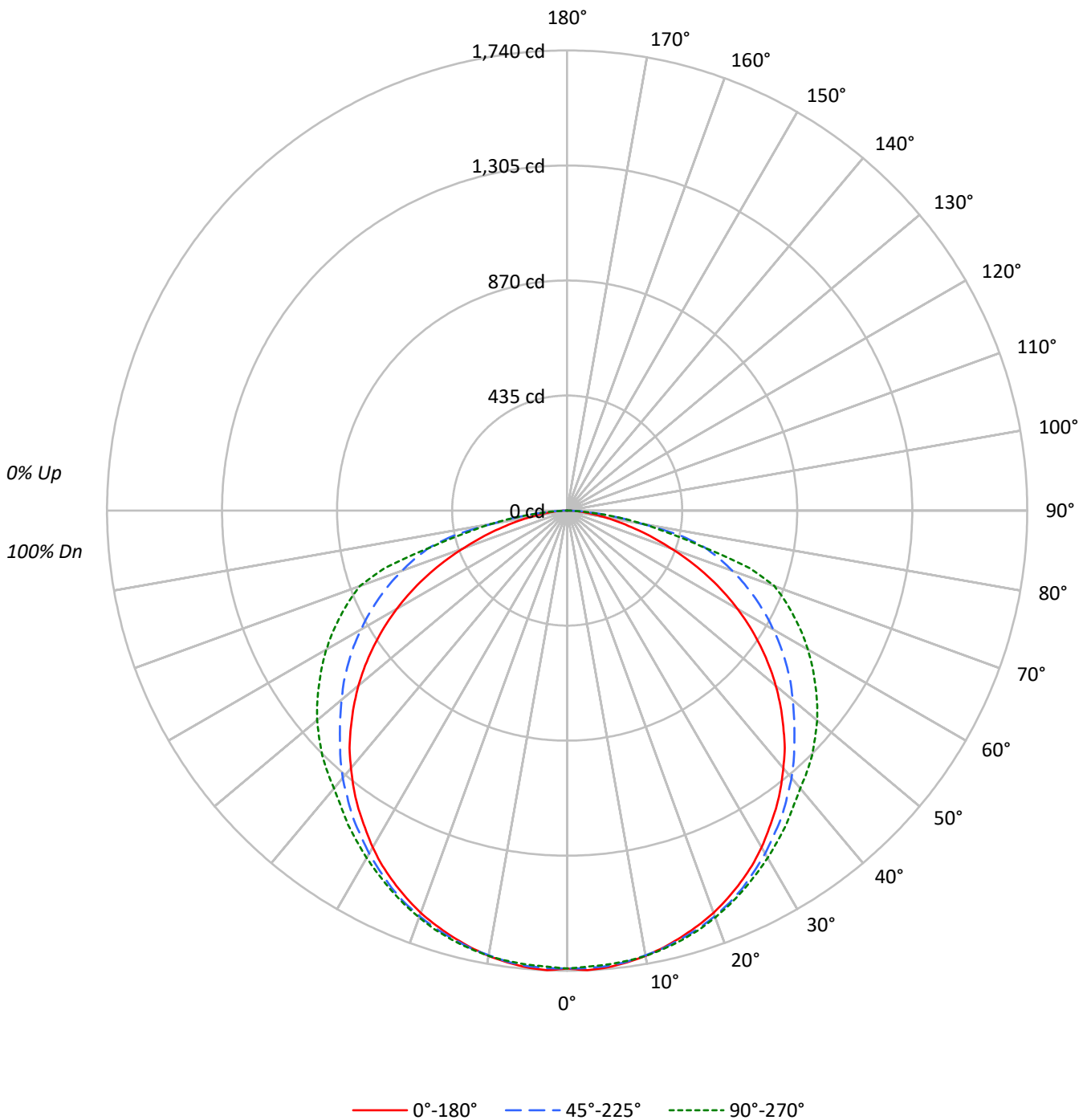
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2330	2330	2330
5°	2342	2335	2328
10°	2336	2333	2336
15°	2326	2333	2341
20°	2318	2337	2344
25°	2303	2335	2347
30°	2285	2327	2356
35°	2261	2323	2376
40°	2234	2319	2408
45°	2200	2312	2492
50°	2156	2330	2583
55°	2094	2371	2687
60°	2004	2424	2829
65°	1866	2500	3013
70°	1650	2613	3279
75°	1384	2795	2754
80°	1104	2208	2292
85°	872	1494	1369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	3.0
10°-20°	472.6	8.7
20°-30°	721.9	13.2
30°-40°	882.6	16.2
40°-50°	944.7	17.3
50°-60°	906.2	16.6
60°-70°	765.1	14.0
70°-80°	489.0	9.0
80°-90°	115.6	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°	1358.8	24.9
0°-40°	2241.4	41.0
0°-60°	4092.3	74.9
0°-90°	5462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1734	1723	1729	1726	1723	165
15°	1670	1664	1675	1680	1680	471
25°	1551	1549	1573	1578	1581	715
35°	1377	1387	1414	1433	1446	861
45°	1156	1175	1215	1272	1309	892
55°	893	922	1011	1102	1145	797
65°	586	643	785	895	946	578
75°	266	379	538	548	530	287
85°	56	94	97	94	89	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1731.5	1731.5	1731.5	1731.5	1731.5
2.5°	1739.6	1728.8	1731.5	1731.5	1726.1
5°	1734.2	1723.4	1728.8	1726.1	1723.4
7.5°	1723.4	1715.4	1720.7	1720.7	1718.1
10°	1710.0	1701.9	1707.3	1710.0	1710.0
12.5°	1691.2	1685.8	1693.9	1693.9	1696.5
15°	1669.7	1664.3	1675.0	1680.4	1680.4
17.5°	1645.5	1642.8	1656.2	1658.9	1661.6
20°	1618.6	1615.9	1632.0	1632.0	1637.4
22.5°	1586.3	1583.6	1605.1	1605.1	1610.5
25°	1551.4	1548.7	1572.9	1578.2	1580.9
27.5°	1513.7	1511.0	1535.2	1543.3	1548.7
30°	1470.7	1470.7	1497.6	1508.3	1516.4
32.5°	1422.3	1430.4	1454.6	1470.7	1481.5
35°	1376.6	1387.4	1414.2	1433.1	1446.5
37.5°	1325.5	1336.3	1365.8	1390.0	1406.2
40°	1271.7	1285.2	1320.1	1347.0	1371.2
42.5°	1218.0	1231.4	1269.0	1309.4	1341.6
45°	1156.1	1174.9	1215.3	1271.7	1309.4
47.5°	1094.3	1113.1	1164.2	1234.1	1271.7
50°	1029.8	1051.3	1113.1	1193.8	1234.1
52.5°	962.5	986.7	1064.7	1150.7	1191.1
55°	892.6	922.2	1010.9	1102.4	1145.4
57.5°	820.0	852.3	957.2	1054.0	1099.7
60°	744.8	785.1	900.7	1002.9	1051.3
62.5°	666.8	715.2	844.2	949.1	1000.2
65°	586.1	642.6	785.1	895.3	946.4
67.5°	502.8	578.1	725.9	841.6	892.6
70°	419.4	508.2	664.1	782.4	833.5
72.5°	341.5	443.6	602.3	712.5	723.3
75°	266.2	379.1	537.7	548.5	529.7
77.5°	199.0	314.6	443.6	395.2	392.5
80°	142.5	252.7	285.0	293.1	295.8
82.5°	94.1	190.9	185.5	190.9	188.2
85°	56.5	94.1	96.8	94.1	88.7
87.5°	26.9	35.0	26.9	24.2	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)