

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: P263864

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263864
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-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4918.0 lumens
Efficiency: N/A
Efficacy: 81.9 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

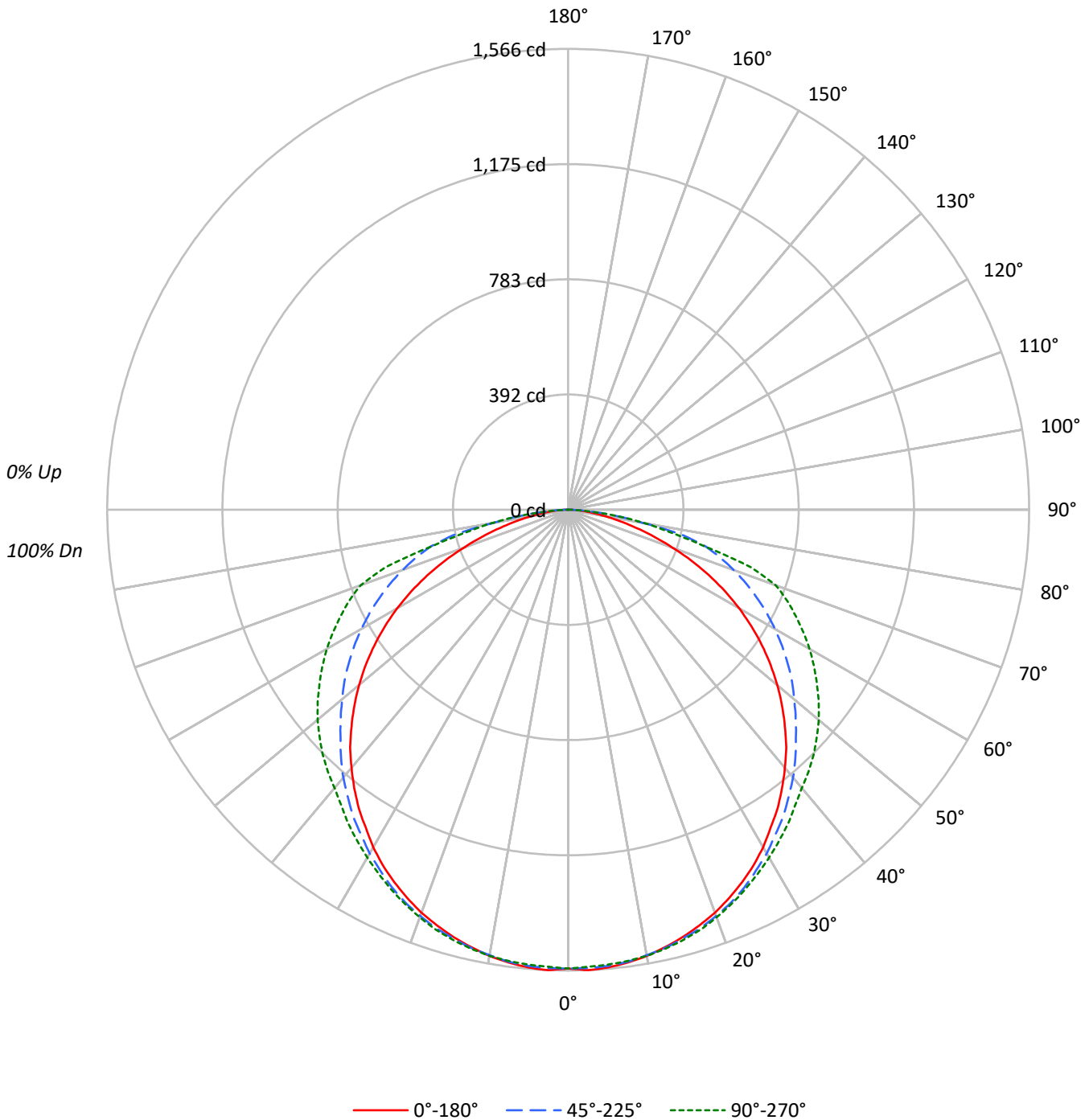
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2098	2098	2098
5°	2109	2102	2096
10°	2104	2100	2104
15°	2094	2101	2108
20°	2087	2104	2111
25°	2074	2102	2113
30°	2057	2095	2121
35°	2036	2092	2139
40°	2011	2088	2168
45°	1981	2082	2243
50°	1941	2098	2326
55°	1885	2135	2419
60°	1805	2182	2547
65°	1680	2251	2713
70°	1486	2353	2952
75°	1246	2517	2479
80°	994	1988	2063
85°	784	1346	1233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	3.0
10°-20°	425.6	8.7
20°-30°	650.0	13.2
30°-40°	794.7	16.2
40°-50°	850.6	17.3
50°-60°	815.9	16.6
60°-70°	688.9	14.0
70°-80°	440.3	9.0
80°-90°	104.1	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°	1223.5	24.9
0°-40°	2018.1	41.0
0°-60°	3684.7	74.9
0°-90°	4918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1562	1552	1557	1554	1552	148
15°	1503	1498	1508	1513	1513	424
25°	1397	1394	1416	1421	1424	644
35°	1240	1249	1273	1290	1302	775
45°	1041	1058	1094	1145	1179	803
55°	804	830	910	993	1031	717
65°	528	579	707	806	852	521
75°	240	341	484	494	477	258
85°	51	85	87	85	80	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1566.3	1556.6	1559.0	1559.0	1554.2
5°	1561.5	1551.8	1556.6	1554.2	1551.8
7.5°	1551.8	1544.5	1549.4	1549.4	1546.9
10°	1539.7	1532.4	1537.3	1539.7	1539.7
12.5°	1522.7	1517.9	1525.2	1525.2	1527.6
15°	1503.4	1498.5	1508.2	1513.1	1513.1
17.5°	1481.6	1479.2	1491.3	1493.7	1496.1
20°	1457.4	1454.9	1469.5	1469.5	1474.3
22.5°	1428.3	1425.9	1445.3	1445.3	1450.1
25°	1396.8	1394.4	1416.2	1421.1	1423.5
27.5°	1363.0	1360.5	1382.3	1389.6	1394.4
30°	1324.2	1324.2	1348.4	1358.1	1365.4
32.5°	1280.6	1287.9	1309.7	1324.2	1333.9
35°	1239.5	1249.2	1273.4	1290.3	1302.4
37.5°	1193.5	1203.2	1229.8	1251.6	1266.1
40°	1145.1	1157.2	1188.7	1212.9	1234.6
42.5°	1096.7	1108.8	1142.7	1179.0	1208.0
45°	1041.0	1057.9	1094.2	1145.1	1179.0
47.5°	985.3	1002.2	1048.2	1111.2	1145.1
50°	927.2	946.6	1002.2	1074.9	1111.2
52.5°	866.7	888.5	958.7	1036.1	1072.5
55°	803.7	830.4	910.3	992.6	1031.3
57.5°	738.4	767.4	861.8	949.0	990.1
60°	670.6	706.9	811.0	903.0	946.6
62.5°	600.4	644.0	760.2	854.6	900.6
65°	527.8	578.6	706.9	806.2	852.1
67.5°	452.7	520.5	653.6	757.7	803.7
70°	377.7	457.5	598.0	704.5	750.5
72.5°	307.5	399.4	542.3	641.5	651.2
75°	239.7	341.3	484.2	493.9	476.9
77.5°	179.1	283.2	399.4	355.9	353.4
80°	128.3	227.6	256.6	263.9	266.3
82.5°	84.7	171.9	167.0	171.9	169.5
85°	50.8	84.7	87.2	84.7	79.9
87.5°	24.2	31.5	24.2	21.8	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)