

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: P263723

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263723
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4807.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

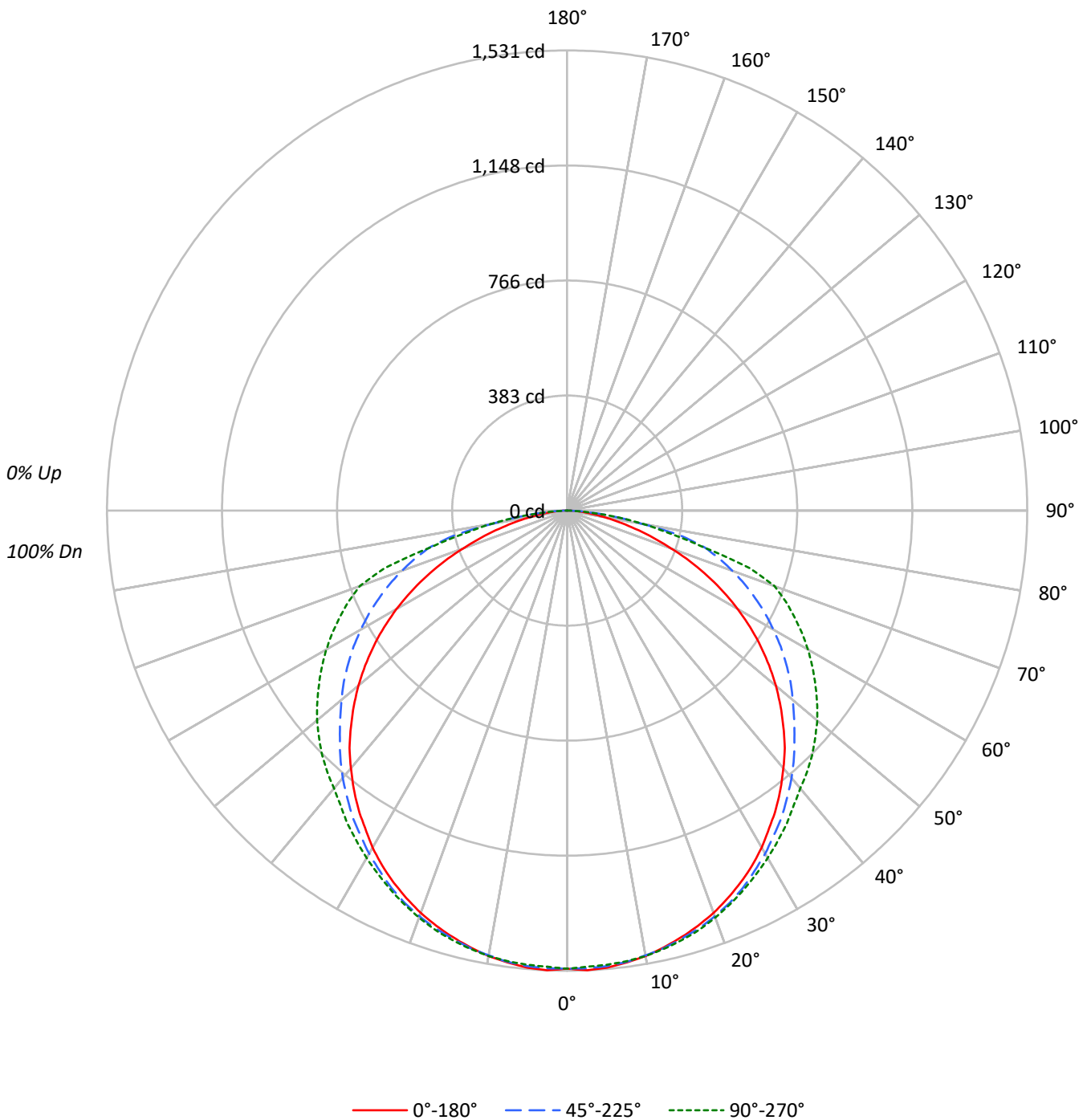
Input Watts (W): 58.404
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2050	2050	2050
5°	2061	2055	2049
10°	2056	2053	2056
15°	2047	2053	2060
20°	2040	2057	2063
25°	2027	2055	2066
30°	2011	2048	2073
35°	1990	2044	2091
40°	1966	2041	2120
45°	1936	2035	2193
50°	1897	2051	2273
55°	1843	2087	2365
60°	1764	2133	2490
65°	1642	2200	2652
70°	1452	2299	2886
75°	1218	2460	2423
80°	972	1943	2017
85°	767	1315	1206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	3.0
10°-20°	416.0	8.7
20°-30°	635.3	13.2
30°-40°	776.7	16.2
40°-50°	831.4	17.3
50°-60°	797.5	16.6
60°-70°	673.4	14.0
70°-80°	430.3	9.0
80°-90°	101.8	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°	1195.8	24.9
0°-40°	1972.6	41.0
0°-60°	3601.5	74.9
0°-90°	4807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1526	1517	1522	1519	1517	145
15°	1469	1465	1474	1479	1479	415
25°	1365	1363	1384	1389	1391	629
35°	1212	1221	1245	1261	1273	757
45°	1018	1034	1070	1119	1152	785
55°	786	812	890	970	1008	701
65°	516	566	691	788	833	509
75°	234	334	473	483	466	252
85°	50	83	85	83	78	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.9	1523.9	1523.9	1523.9	1523.9
2.5°	1531.0	1521.5	1523.9	1523.9	1519.1
5°	1526.2	1516.8	1521.5	1519.1	1516.8
7.5°	1516.8	1509.7	1514.4	1514.4	1512.0
10°	1504.9	1497.8	1502.6	1504.9	1504.9
12.5°	1488.4	1483.6	1490.7	1490.7	1493.1
15°	1469.4	1464.7	1474.2	1478.9	1478.9
17.5°	1448.1	1445.8	1457.6	1460.0	1462.3
20°	1424.5	1422.1	1436.3	1436.3	1441.0
22.5°	1396.1	1393.7	1412.6	1412.6	1417.4
25°	1365.3	1363.0	1384.3	1389.0	1391.3
27.5°	1332.2	1329.8	1351.1	1358.2	1363.0
30°	1294.3	1294.3	1318.0	1327.5	1334.6
32.5°	1251.7	1258.8	1280.1	1294.3	1303.8
35°	1211.5	1221.0	1244.6	1261.2	1273.0
37.5°	1166.6	1176.0	1202.1	1223.3	1237.5
40°	1119.2	1131.1	1161.8	1185.5	1206.8
42.5°	1071.9	1083.7	1116.9	1152.4	1180.8
45°	1017.5	1034.0	1069.5	1119.2	1152.4
47.5°	963.1	979.6	1024.6	1086.1	1119.2
50°	906.3	925.2	979.6	1050.6	1086.1
52.5°	847.1	868.4	937.0	1012.8	1048.2
55°	785.6	811.6	889.7	970.2	1008.0
57.5°	721.7	750.1	842.4	927.6	967.8
60°	655.4	690.9	792.7	882.6	925.2
62.5°	586.8	629.4	743.0	835.3	880.2
65°	515.8	565.5	690.9	788.0	832.9
67.5°	442.5	508.7	638.9	740.6	785.6
70°	369.1	447.2	584.5	688.6	733.5
72.5°	300.5	390.4	530.0	627.1	636.5
75°	234.3	333.6	473.2	482.7	466.1
77.5°	175.1	276.9	390.4	347.8	345.5
80°	125.4	222.4	250.8	257.9	260.3
82.5°	82.8	168.0	163.3	168.0	165.6
85°	49.7	82.8	85.2	82.8	78.1
87.5°	23.7	30.8	23.7	21.3	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)