

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: P263614

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263614
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-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4809.3 lumens
Efficiency: N/A
Efficacy: 80.3 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

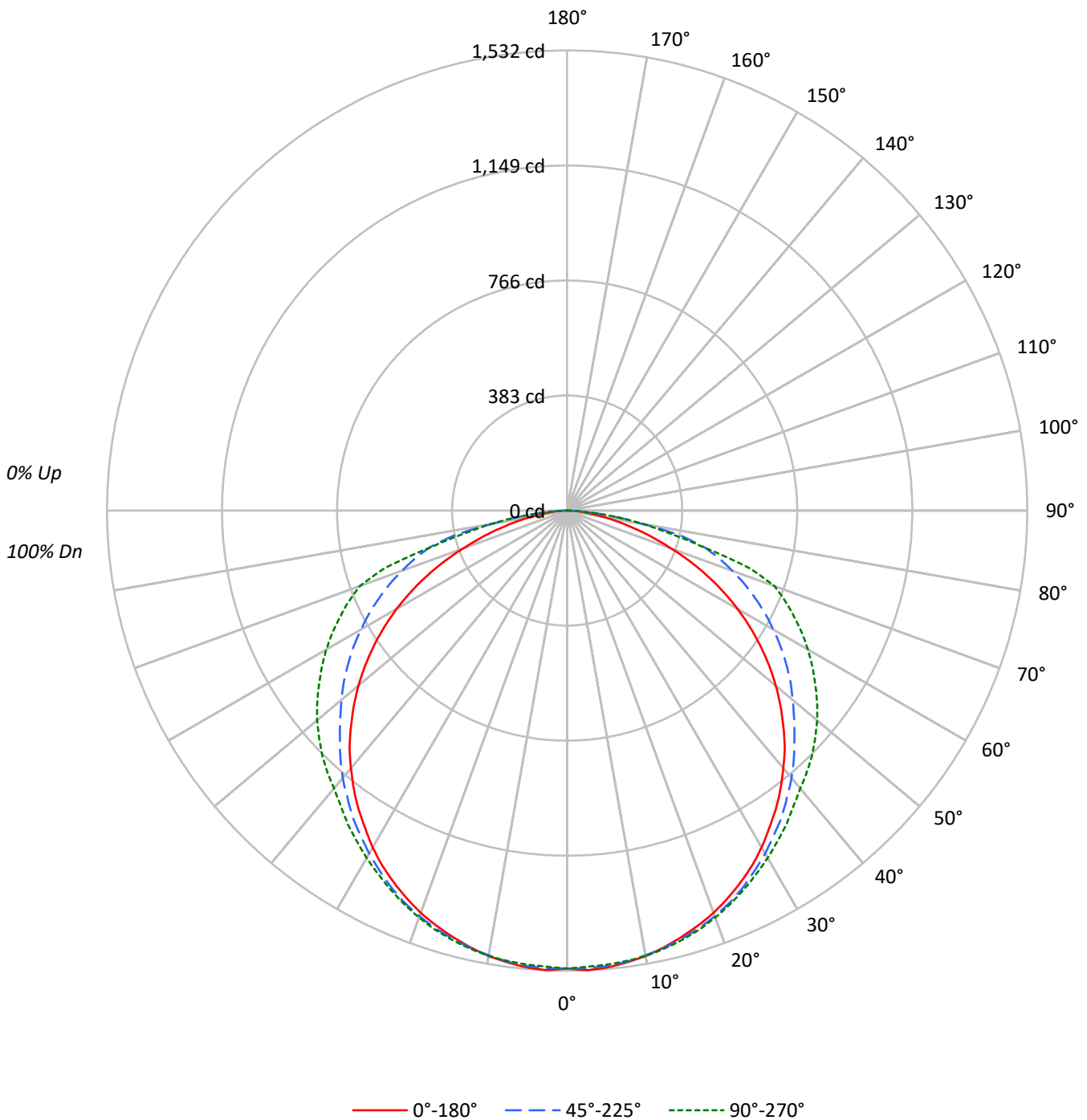
Input Watts (W): 59.922504
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2051	2051	2051
5°	2062	2056	2050
10°	2057	2054	2057
15°	2048	2054	2061
20°	2041	2058	2064
25°	2028	2056	2067
30°	2012	2049	2074
35°	1991	2045	2092
40°	1967	2042	2121
45°	1937	2036	2194
50°	1898	2052	2274
55°	1844	2088	2366
60°	1765	2134	2491
65°	1643	2201	2653
70°	1453	2300	2887
75°	1219	2462	2425
80°	972	1944	2018
85°	767	1315	1206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	3.0
10°-20°	416.2	8.7
20°-30°	635.7	13.2
30°-40°	777.1	16.2
40°-50°	831.8	17.3
50°-60°	797.9	16.6
60°-70°	673.7	14.0
70°-80°	430.5	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°	1196.4	24.9
0°-40°	1973.5	41.0
0°-60°	3603.3	74.9
0°-90°	4809.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4809.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1527	1518	1522	1520	1518	145
15°	1470	1465	1475	1480	1480	415
25°	1366	1364	1385	1390	1392	630
35°	1212	1222	1245	1262	1274	758
45°	1018	1034	1070	1120	1153	785
55°	786	812	890	971	1008	701
65°	516	566	691	788	833	509
75°	234	334	474	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°	1524.6	1524.6	1524.6	1524.6	1524.6
2.5°	1531.7	1522.2	1524.6	1524.6	1519.9
5°	1527.0	1517.5	1522.2	1519.9	1517.5
7.5°	1517.5	1510.4	1515.1	1515.1	1512.8
10°	1505.7	1498.6	1503.3	1505.7	1505.7
12.5°	1489.1	1484.3	1491.5	1491.5	1493.8
15°	1470.1	1465.4	1474.9	1479.6	1479.6
17.5°	1448.8	1446.5	1458.3	1460.7	1463.0
20°	1425.2	1422.8	1437.0	1437.0	1441.7
22.5°	1396.8	1394.4	1413.3	1413.3	1418.1
25°	1366.0	1363.6	1384.9	1389.7	1392.0
27.5°	1332.8	1330.5	1351.8	1358.9	1363.6
30°	1295.0	1295.0	1318.6	1328.1	1335.2
32.5°	1252.3	1259.4	1280.8	1295.0	1304.4
35°	1212.1	1221.6	1245.2	1261.8	1273.7
37.5°	1167.1	1176.6	1202.6	1223.9	1238.1
40°	1119.8	1131.6	1162.4	1186.1	1207.4
42.5°	1072.4	1084.3	1117.4	1152.9	1181.3
45°	1018.0	1034.5	1070.1	1119.8	1152.9
47.5°	963.5	980.1	1025.1	1086.6	1119.8
50°	906.7	925.6	980.1	1051.1	1086.6
52.5°	847.5	868.8	937.5	1013.2	1048.8
55°	786.0	812.0	890.1	970.6	1008.5
57.5°	722.1	750.5	842.8	928.0	968.3
60°	655.8	691.3	793.1	883.0	925.6
62.5°	587.1	629.7	743.4	835.7	880.7
65°	516.1	565.8	691.3	788.3	833.3
67.5°	442.7	509.0	639.2	741.0	786.0
70°	369.3	447.4	584.7	688.9	733.9
72.5°	300.7	390.6	530.3	627.4	636.8
75°	234.4	333.8	473.5	482.9	466.4
77.5°	175.2	277.0	390.6	348.0	345.6
80°	125.5	222.5	250.9	258.0	260.4
82.5°	82.9	168.1	163.3	168.1	165.7
85°	49.7	82.9	85.2	82.9	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)