

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: P263193

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241.6 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

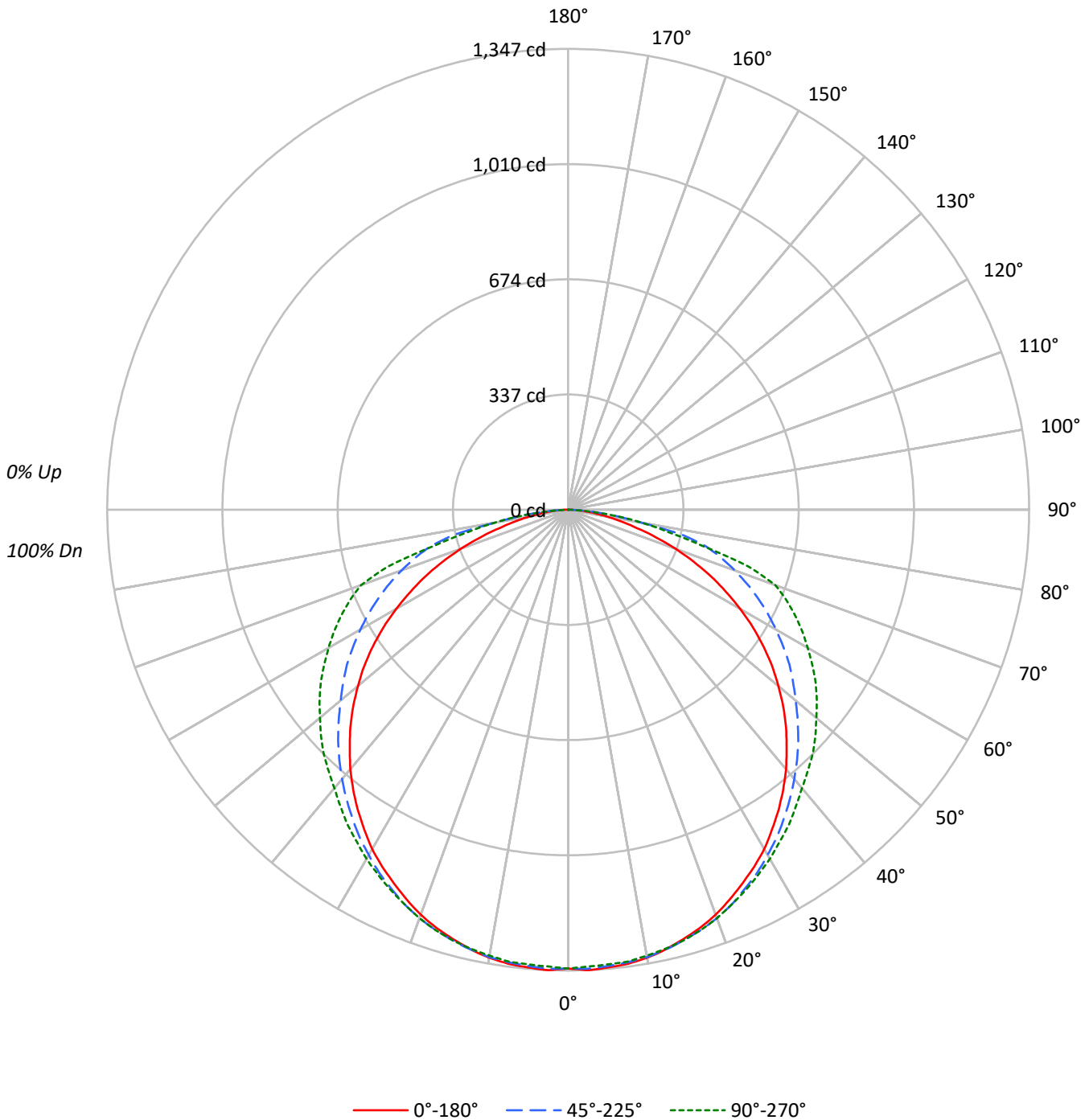
Input Watts (W): 59.513676
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263193

CATALOG NUMBER: 24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P263193

CATALOG NUMBER: 24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3500K

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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1804	1804	1804
5°	1814	1808	1802
10°	1817	1814	1808
15°	1810	1816	1816
20°	1804	1819	1819
25°	1789	1815	1821
30°	1780	1811	1831
35°	1760	1807	1846
40°	1739	1805	1866
45°	1713	1809	1922
50°	1679	1816	1981
55°	1634	1850	2071
60°	1562	1887	2176
65°	1465	1946	2330
70°	1310	2034	2534
75°	1082	2176	2096
80°	883	1681	1698
85°	710	1116	1048



TEST NUMBER: P263193

CATALOG NUMBER: 24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	3.0
10°-20°	367.5	8.7
20°-30°	561.6	13.2
30°-40°	686.9	16.2
40°-50°	735.0	17.3
50°-60°	703.8	16.6
60°-70°	595.4	14.0
70°-80°	377.4	8.9
80°-90°	86.8	2.0
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°	1056.4	24.9
0°-40°	1743.3	41.1
0°-60°	3182.1	75.0
0°-90°	4241.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1343	1336	1339	1336	1334	128
15°	1299	1297	1304	1304	1304	367
25°	1205	1205	1222	1227	1227	556
35°	1071	1078	1100	1115	1124	670
45°	900	916	951	990	1010	694
55°	697	719	789	854	883	621
65°	460	504	611	694	732	453
75°	208	294	418	416	403	226
85°	46	70	72	66	68	55
90°	0	0	0	0	0	



TEST NUMBER: P263193

CATALOG NUMBER: 24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.9	1340.9	1340.9	1340.9	1340.9
2.5°	1347.4	1340.9	1343.1	1340.9	1336.5
5°	1343.1	1336.5	1338.7	1336.5	1334.3
7.5°	1338.7	1332.1	1334.3	1332.1	1332.1
10°	1329.9	1323.3	1327.7	1325.5	1323.3
12.5°	1316.8	1312.4	1316.8	1314.6	1314.6
15°	1299.2	1297.0	1303.6	1303.6	1303.6
17.5°	1281.7	1279.5	1288.3	1288.3	1288.3
20°	1259.8	1257.6	1270.7	1270.7	1270.7
22.5°	1233.5	1231.3	1248.8	1248.8	1248.8
25°	1205.0	1205.0	1222.5	1226.9	1226.9
27.5°	1176.5	1176.5	1196.3	1202.8	1202.8
30°	1145.9	1145.9	1165.6	1174.3	1178.7
32.5°	1108.6	1113.0	1134.9	1145.9	1150.2
35°	1071.4	1077.9	1099.9	1115.2	1124.0
37.5°	1031.9	1038.5	1064.8	1082.3	1093.3
40°	990.3	999.1	1027.6	1049.5	1062.6
42.5°	944.3	957.4	990.3	1018.8	1036.3
45°	900.5	915.8	950.9	990.3	1010.0
47.5°	852.3	869.8	909.2	959.6	979.4
50°	801.9	819.4	867.6	924.6	946.5
52.5°	751.5	771.2	828.2	889.5	915.8
55°	696.7	718.6	788.7	854.5	883.0
57.5°	639.8	666.0	744.9	815.0	845.7
60°	580.6	613.5	701.1	775.6	808.5
62.5°	519.3	558.7	657.3	736.2	771.2
65°	460.1	503.9	611.3	694.5	731.8
67.5°	396.6	451.3	565.3	655.1	690.1
70°	333.0	396.6	517.1	609.1	644.1
72.5°	269.5	346.2	468.9	552.1	552.1
75°	208.1	293.6	418.5	416.3	403.1
77.5°	157.7	245.4	344.0	293.6	295.8
80°	113.9	197.2	216.9	216.9	219.1
82.5°	76.7	151.2	140.2	138.0	142.4
85°	46.0	70.1	72.3	65.7	67.9
87.5°	21.9	24.1	19.7	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)