

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: P263192

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263192
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3882.3 lumens
Efficiency: N/A
Efficacy: 65.0 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

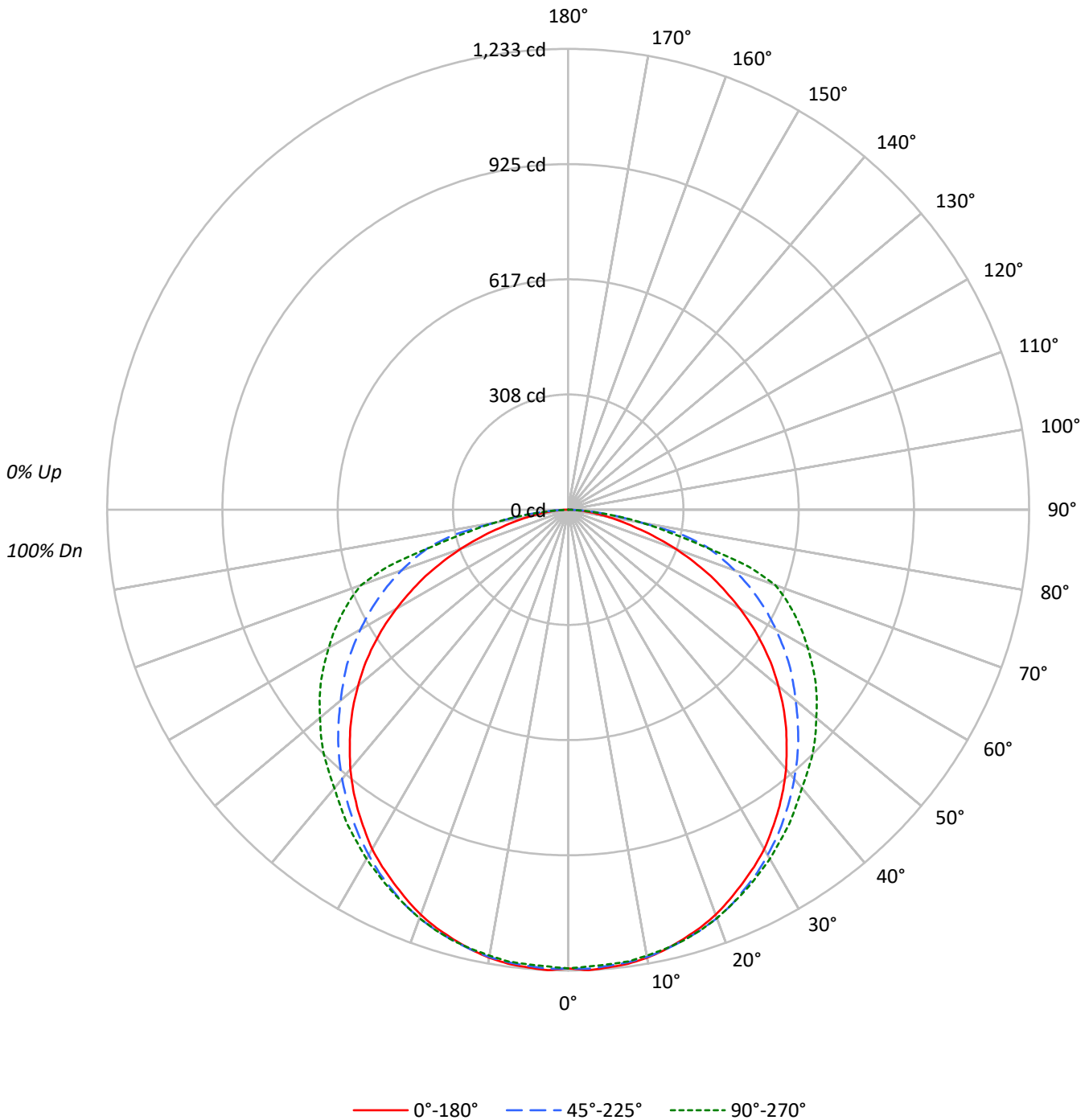
Input Watts (W): 59.747292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263192

CATALOG NUMBER: 24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P263192

CATALOG NUMBER: 24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3000K

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°	1651	1651	1651
5°	1660	1655	1650
10°	1663	1660	1655
15°	1656	1662	1662
20°	1651	1665	1665
25°	1637	1661	1667
30°	1629	1658	1676
35°	1611	1654	1690
40°	1592	1652	1708
45°	1568	1656	1759
50°	1536	1662	1813
55°	1496	1693	1896
60°	1430	1727	1991
65°	1341	1781	2132
70°	1199	1862	2319
75°	990	1991	1918
80°	808	1538	1554
85°	650	1022	960



TEST NUMBER: P263192

CATALOG NUMBER: 24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.0
10°-20°	336.3	8.7
20°-30°	514.0	13.2
30°-40°	628.7	16.2
40°-50°	672.7	17.3
50°-60°	644.2	16.6
60°-70°	544.9	14.0
70°-80°	345.4	8.9
80°-90°	79.5	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°	967.0	24.9
0°-40°	1595.7	41.1
0°-60°	2912.5	75.0
0°-90°	3882.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3882.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1229	1223	1225	1223	1221	117
15°	1189	1187	1193	1193	1193	336
25°	1103	1103	1119	1123	1123	509
35°	981	987	1007	1021	1029	613
45°	824	838	870	906	924	635
55°	638	658	722	782	808	569
65°	421	461	560	636	670	415
75°	190	269	383	381	369	207
85°	42	64	66	60	62	50
90°	0	0	0	0	0	



TEST NUMBER: P263192

CATALOG NUMBER: 24CZ-LD5-75-SQP-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.3	1227.3	1227.3	1227.3	1227.3
2.5°	1233.3	1227.3	1229.3	1227.3	1223.3
5°	1229.3	1223.3	1225.3	1223.3	1221.3
7.5°	1225.3	1219.3	1221.3	1219.3	1219.3
10°	1217.3	1211.2	1215.2	1213.2	1211.2
12.5°	1205.2	1201.2	1205.2	1203.2	1203.2
15°	1189.2	1187.2	1193.2	1193.2	1193.2
17.5°	1173.1	1171.1	1179.2	1179.2	1179.2
20°	1153.1	1151.1	1163.1	1163.1	1163.1
22.5°	1129.0	1127.0	1143.1	1143.1	1143.1
25°	1102.9	1102.9	1119.0	1123.0	1123.0
27.5°	1076.9	1076.9	1094.9	1100.9	1100.9
30°	1048.8	1048.8	1066.9	1074.9	1078.9
32.5°	1014.7	1018.7	1038.8	1048.8	1052.8
35°	980.6	986.6	1006.7	1020.7	1028.8
37.5°	944.5	950.5	974.6	990.6	1000.7
40°	906.4	914.4	940.5	960.6	972.6
42.5°	864.3	876.3	906.4	932.5	948.5
45°	824.2	838.2	870.3	906.4	924.5
47.5°	780.1	796.1	832.2	878.3	896.4
50°	734.0	750.0	794.1	846.3	866.3
52.5°	687.8	705.9	758.0	814.2	838.2
55°	637.7	657.8	721.9	782.1	808.2
57.5°	585.6	609.6	681.8	746.0	774.1
60°	531.4	561.5	641.7	709.9	740.0
62.5°	475.3	511.4	601.6	673.8	705.9
65°	421.1	461.2	559.5	635.7	669.8
67.5°	363.0	413.1	517.4	599.6	631.7
70°	304.8	363.0	473.3	557.5	589.6
72.5°	246.7	316.8	429.1	505.4	505.4
75°	190.5	268.7	383.0	381.0	369.0
77.5°	144.4	224.6	314.8	268.7	270.7
80°	104.3	180.5	198.5	198.5	200.5
82.5°	70.2	138.4	128.3	126.3	130.3
85°	42.1	64.2	66.2	60.2	62.2
87.5°	20.1	22.1	18.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)