

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: P263284

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263284
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-LD5-60-SQP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4174.0 lumens
Efficiency: N/A
Efficacy: 90.3 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

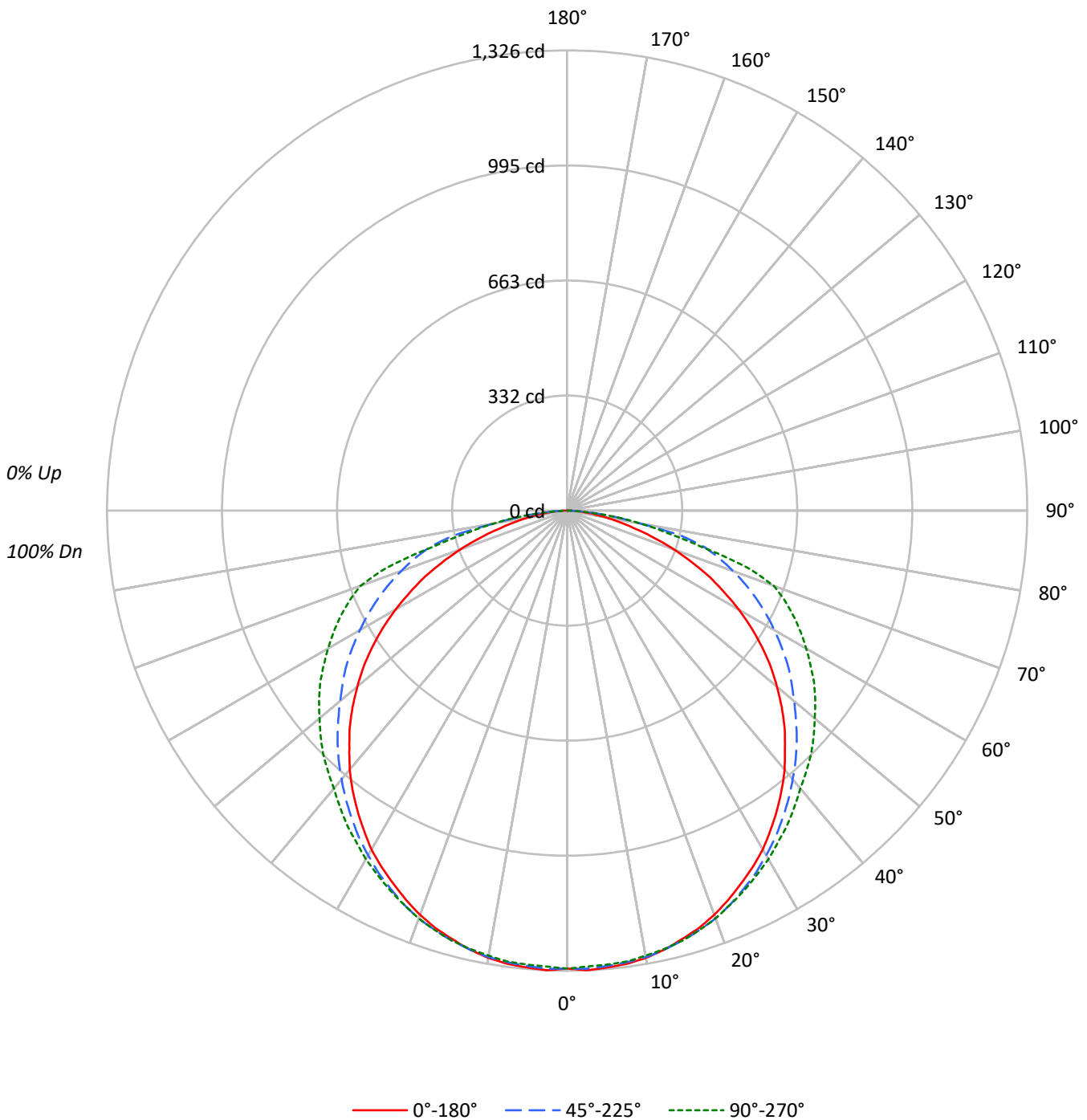
Input Watts (W): 46.221
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1775	1775	1775
5°	1785	1779	1773
10°	1788	1785	1779
15°	1781	1787	1787
20°	1775	1791	1791
25°	1760	1786	1792
30°	1752	1782	1802
35°	1732	1778	1817
40°	1712	1776	1837
45°	1686	1780	1891
50°	1652	1787	1950
55°	1608	1821	2038
60°	1537	1857	2141
65°	1442	1915	2293
70°	1289	2002	2494
75°	1065	2141	2062
80°	869	1654	1671
85°	699	1098	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	3.0
10°-20°	361.6	8.7
20°-30°	552.7	13.2
30°-40°	675.9	16.2
40°-50°	723.2	17.3
50°-60°	692.6	16.6
60°-70°	585.9	14.0
70°-80°	371.4	8.9
80°-90°	85.4	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°	1039.6	24.9
0°-40°	1715.5	41.1
0°-60°	3131.3	75.0
0°-90°	4174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1322	1315	1317	1315	1313	126
15°	1278	1276	1283	1283	1283	361
25°	1186	1186	1203	1207	1207	547
35°	1054	1061	1082	1097	1106	660
45°	886	901	936	974	994	683
55°	686	707	776	841	869	612
65°	453	496	602	684	720	446
75°	205	289	412	410	397	223
85°	45	69	71	65	67	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.5	1319.5	1319.5	1319.5	1319.5
2.5°	1325.9	1319.5	1321.6	1319.5	1315.2
5°	1321.6	1315.2	1317.3	1315.2	1313.0
7.5°	1317.3	1310.9	1313.0	1310.9	1310.9
10°	1308.7	1302.2	1306.5	1304.4	1302.2
12.5°	1295.8	1291.5	1295.8	1293.6	1293.6
15°	1278.5	1276.4	1282.8	1282.8	1282.8
17.5°	1261.3	1259.1	1267.7	1267.7	1267.7
20°	1239.7	1237.6	1250.5	1250.5	1250.5
22.5°	1213.8	1211.7	1228.9	1228.9	1228.9
25°	1185.8	1185.8	1203.1	1207.4	1207.4
27.5°	1157.8	1157.8	1177.2	1183.7	1183.7
30°	1127.6	1127.6	1147.0	1155.6	1159.9
32.5°	1090.9	1095.3	1116.8	1127.6	1131.9
35°	1054.3	1060.8	1082.3	1097.4	1106.0
37.5°	1015.5	1021.9	1047.8	1065.1	1075.9
40°	974.5	983.1	1011.2	1032.7	1045.7
42.5°	929.2	942.2	974.5	1002.5	1019.8
45°	886.1	901.2	935.7	974.5	993.9
47.5°	838.7	855.9	894.7	944.3	963.7
50°	789.1	806.3	853.8	909.8	931.4
52.5°	739.5	758.9	815.0	875.3	901.2
55°	685.6	707.2	776.2	840.8	868.9
57.5°	629.6	655.4	733.0	802.0	832.2
60°	571.3	603.7	689.9	763.2	795.6
62.5°	511.0	549.8	646.8	724.4	758.9
65°	452.8	495.9	601.5	683.5	720.1
67.5°	390.2	444.1	556.3	644.6	679.1
70°	327.7	390.2	508.8	599.4	633.9
72.5°	265.2	340.6	461.4	543.3	543.3
75°	204.8	288.9	411.8	409.6	396.7
77.5°	155.2	241.5	338.5	288.9	291.1
80°	112.1	194.0	213.4	213.4	215.6
82.5°	75.5	148.8	138.0	135.8	140.1
85°	45.3	69.0	71.1	64.7	66.8
87.5°	21.6	23.7	19.4	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)