

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: P263278

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263278
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3900.0 lumens
Efficiency: N/A
Efficacy: 87.7 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

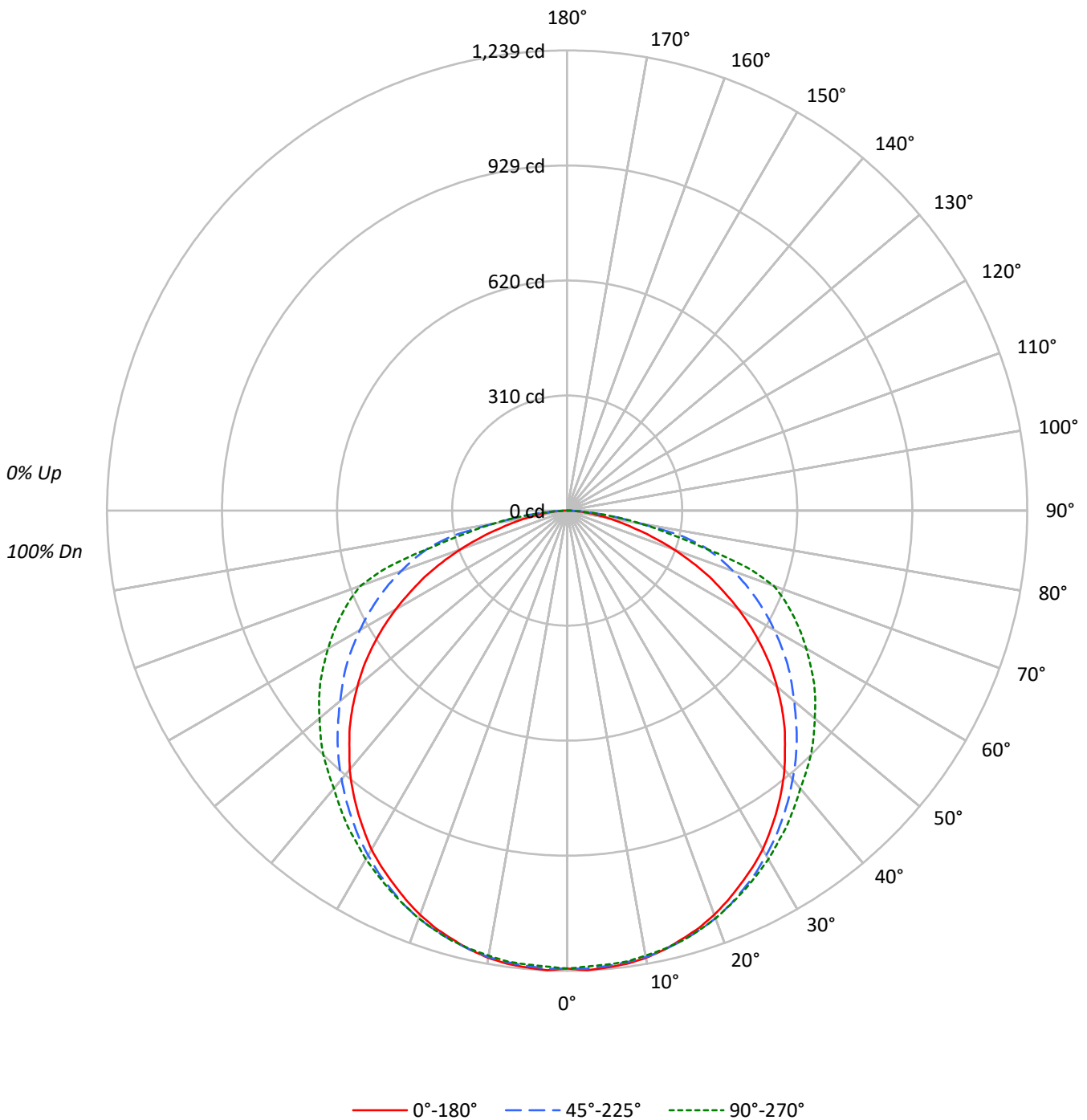
Input Watts (W): 44.454
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1659	1659	1659
5°	1668	1662	1657
10°	1671	1668	1662
15°	1664	1670	1670
20°	1659	1673	1673
25°	1645	1669	1675
30°	1637	1665	1684
35°	1618	1661	1697
40°	1599	1659	1716
45°	1576	1664	1767
50°	1543	1670	1822
55°	1503	1701	1904
60°	1436	1735	2000
65°	1347	1789	2142
70°	1205	1870	2330
75°	995	2000	1927
80°	812	1545	1561
85°	653	1027	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.0
10°-20°	337.9	8.7
20°-30°	516.4	13.2
30°-40°	631.6	16.2
40°-50°	675.8	17.3
50°-60°	647.1	16.6
60°-70°	547.4	14.0
70°-80°	347.0	8.9
80°-90°	79.8	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°	971.4	24.9
0°-40°	1602.9	41.1
0°-60°	2925.8	75.0
0°-90°	3900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1235	1229	1231	1229	1227	118
15°	1195	1193	1199	1199	1199	337
25°	1108	1108	1124	1128	1128	511
35°	985	991	1011	1025	1033	616
45°	828	842	874	910	929	638
55°	641	661	725	786	812	571
65°	423	463	562	639	673	417
75°	191	270	385	383	371	208
85°	42	64	66	60	62	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.9	1232.9	1232.9	1232.9	1232.9
2.5°	1238.9	1232.9	1234.9	1232.9	1228.8
5°	1234.9	1228.8	1230.8	1228.8	1226.8
7.5°	1230.8	1224.8	1226.8	1224.8	1224.8
10°	1222.8	1216.7	1220.8	1218.8	1216.7
12.5°	1210.7	1206.7	1210.7	1208.7	1208.7
15°	1194.6	1192.6	1198.6	1198.6	1198.6
17.5°	1178.5	1176.5	1184.5	1184.5	1184.5
20°	1158.3	1156.3	1168.4	1168.4	1168.4
22.5°	1134.2	1132.1	1148.3	1148.3	1148.3
25°	1108.0	1108.0	1124.1	1128.1	1128.1
27.5°	1081.8	1081.8	1099.9	1106.0	1106.0
30°	1053.6	1053.6	1071.7	1079.8	1083.8
32.5°	1019.3	1023.4	1043.5	1053.6	1057.6
35°	985.1	991.1	1011.3	1025.4	1033.4
37.5°	948.8	954.9	979.0	995.2	1005.2
40°	910.5	918.6	944.8	964.9	977.0
42.5°	868.2	880.3	910.5	936.7	952.9
45°	828.0	842.1	874.3	910.5	928.7
47.5°	783.6	799.7	836.0	882.3	900.5
50°	737.3	753.4	797.7	850.1	870.3
52.5°	691.0	709.1	761.5	817.9	842.1
55°	640.6	660.8	725.2	785.6	811.8
57.5°	588.2	612.4	684.9	749.4	777.6
60°	533.8	564.1	644.6	713.1	743.3
62.5°	477.4	513.7	604.3	676.9	709.1
65°	423.0	463.3	562.0	638.6	672.8
67.5°	364.6	415.0	519.7	602.3	634.6
70°	306.2	364.6	475.4	560.0	592.3
72.5°	247.8	318.3	431.1	507.6	507.6
75°	191.4	269.9	384.8	382.8	370.7
77.5°	145.0	225.6	316.3	269.9	272.0
80°	104.8	181.3	199.4	199.4	201.4
82.5°	70.5	139.0	128.9	126.9	130.9
85°	42.3	64.5	66.5	60.4	62.4
87.5°	20.1	22.2	18.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)