

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: P263279

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263279
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3986.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

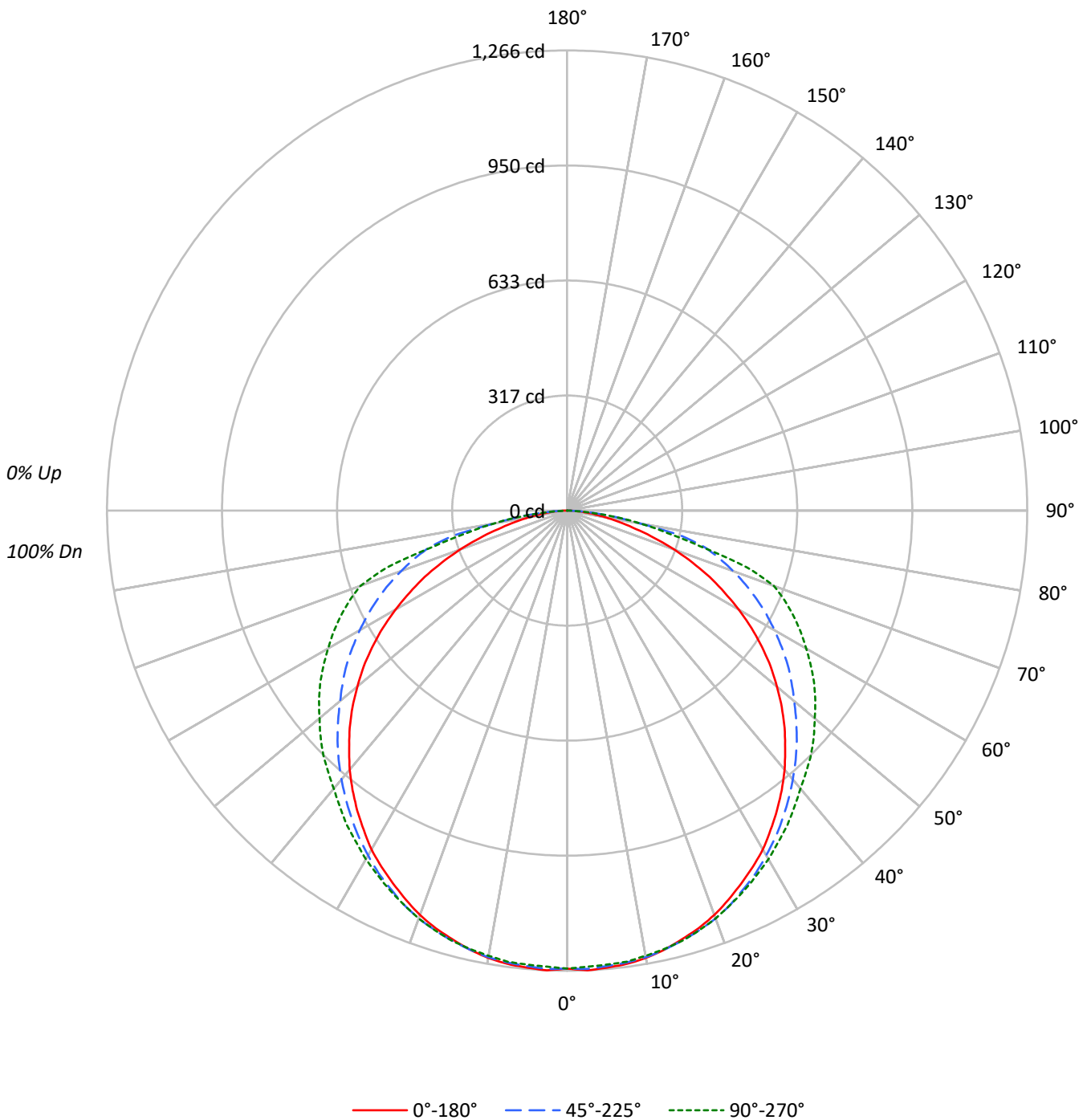
Input Watts (W): 44.826
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1695	1695	1695
5°	1705	1699	1694
10°	1708	1705	1699
15°	1701	1706	1706
20°	1695	1710	1710
25°	1681	1706	1712
30°	1673	1702	1721
35°	1654	1698	1735
40°	1635	1696	1754
45°	1610	1700	1806
50°	1577	1707	1862
55°	1536	1739	1946
60°	1468	1773	2044
65°	1377	1829	2189
70°	1231	1912	2381
75°	1017	2045	1969
80°	830	1579	1595
85°	667	1048	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	3.0
10°-20°	345.3	8.7
20°-30°	527.8	13.2
30°-40°	645.5	16.2
40°-50°	690.7	17.3
50°-60°	661.4	16.6
60°-70°	559.5	14.0
70°-80°	354.6	8.9
80°-90°	81.6	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°	992.8	24.9
0°-40°	1638.3	41.1
0°-60°	2990.3	75.0
0°-90°	3986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1262	1256	1258	1256	1254	120
15°	1221	1219	1225	1225	1225	345
25°	1132	1132	1149	1153	1153	522
35°	1007	1013	1034	1048	1056	630
45°	846	861	894	931	949	652
55°	655	675	741	803	830	584
65°	432	474	574	653	688	426
75°	196	276	393	391	379	213
85°	43	66	68	62	64	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.0	1260.0	1260.0	1260.0	1260.0
2.5°	1266.2	1260.0	1262.1	1260.0	1255.9
5°	1262.1	1255.9	1258.0	1255.9	1253.9
7.5°	1258.0	1251.8	1253.9	1251.8	1251.8
10°	1249.8	1243.6	1247.7	1245.6	1243.6
12.5°	1237.4	1233.3	1237.4	1235.3	1235.3
15°	1220.9	1218.9	1225.0	1225.0	1225.0
17.5°	1204.5	1202.4	1210.6	1210.6	1210.6
20°	1183.9	1181.8	1194.2	1194.2	1194.2
22.5°	1159.2	1157.1	1173.6	1173.6	1173.6
25°	1132.4	1132.4	1148.9	1153.0	1153.0
27.5°	1105.6	1105.6	1124.2	1130.3	1130.3
30°	1076.8	1076.8	1095.3	1103.6	1107.7
32.5°	1041.8	1045.9	1066.5	1076.8	1080.9
35°	1006.8	1013.0	1033.6	1048.0	1056.2
37.5°	969.7	975.9	1000.6	1017.1	1027.4
40°	930.6	938.9	965.6	986.2	998.6
42.5°	887.4	899.7	930.6	957.4	973.9
45°	846.2	860.6	893.6	930.6	949.2
47.5°	800.9	817.4	854.4	901.8	920.3
50°	753.6	770.0	815.3	868.9	889.4
52.5°	706.2	724.7	778.3	835.9	860.6
55°	654.7	675.3	741.2	803.0	829.7
57.5°	601.2	625.9	700.0	765.9	794.7
60°	545.6	576.5	658.8	728.9	759.7
62.5°	488.0	525.0	617.7	691.8	724.7
65°	432.4	473.5	574.4	652.7	687.7
67.5°	372.7	424.1	531.2	615.6	648.6
70°	313.0	372.7	485.9	572.4	605.3
72.5°	253.2	325.3	440.6	518.8	518.8
75°	195.6	275.9	393.3	391.2	378.8
77.5°	148.2	230.6	323.2	275.9	278.0
80°	107.1	185.3	203.8	203.8	205.9
82.5°	72.1	142.1	131.8	129.7	133.8
85°	43.2	65.9	67.9	61.8	63.8
87.5°	20.6	22.6	18.5	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)