

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: P261278

Luminaire Tested: **24CZ-LD5-40-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3669.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

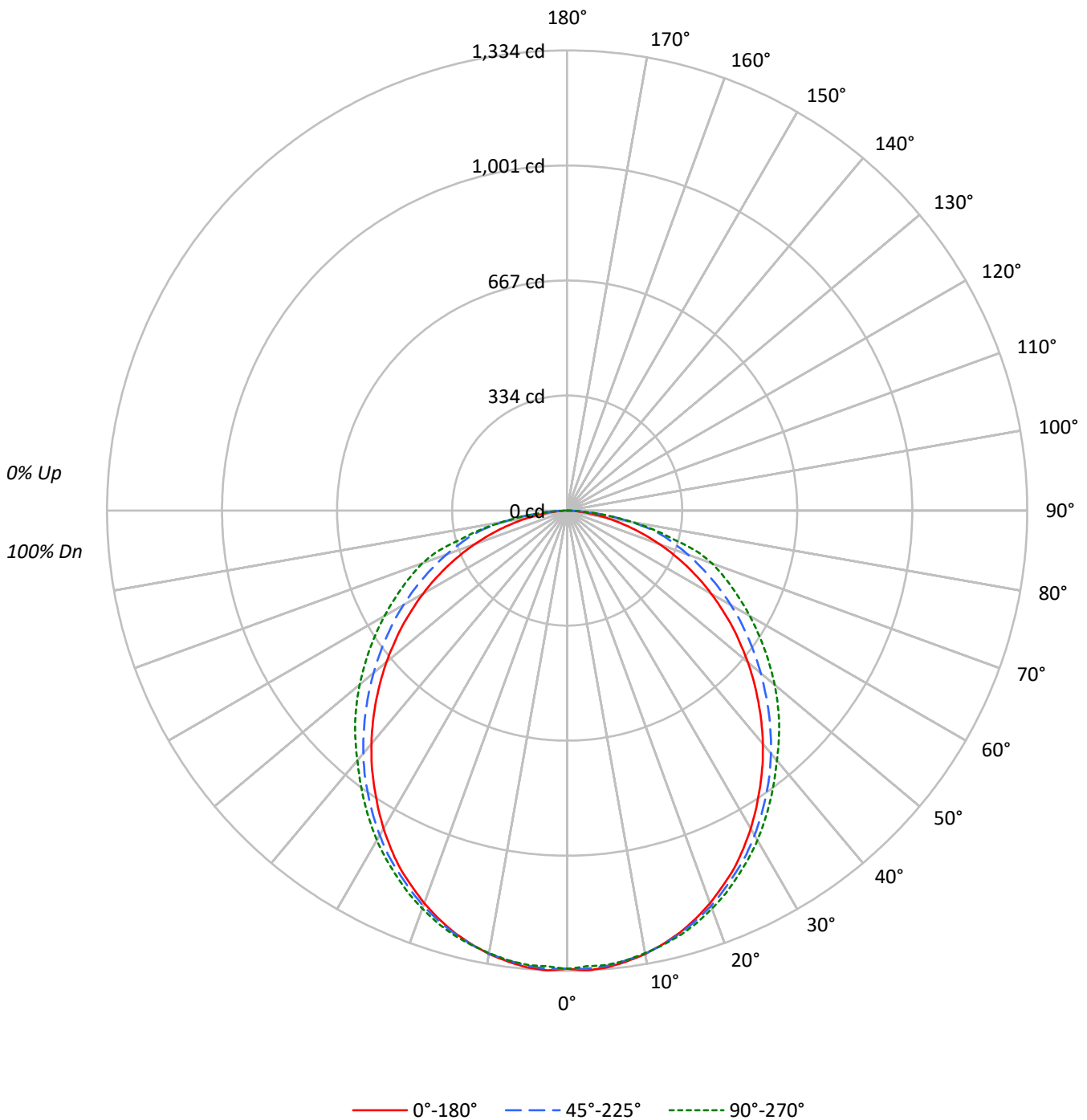
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1787	1787	1787
5°	1796	1789	1786
10°	1783	1781	1780
15°	1763	1767	1774
20°	1734	1746	1758
25°	1700	1718	1736
30°	1654	1688	1715
35°	1602	1652	1686
40°	1550	1615	1662
45°	1491	1573	1654
50°	1431	1533	1643
55°	1369	1501	1638
60°	1298	1475	1646
65°	1220	1457	1679
70°	1124	1465	1758
75°	997	1517	1638
80°	832	1438	1475
85°	622	1150	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.4
10°-20°	357.2	9.7
20°-30°	532.3	14.5
30°-40°	626.5	17.1
40°-50°	636.7	17.4
50°-60°	572.4	15.6
60°-70°	452.3	12.3
70°-80°	286.9	7.8
80°-90°	79.2	2.2
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°	1015.0	27.7
0°-40°	1641.5	44.7
0°-60°	2850.7	77.7
0°-90°	3669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1330	1318	1325	1322	1322	126
15°	1266	1260	1268	1272	1273	357
25°	1145	1144	1157	1165	1170	527
35°	975	982	1006	1017	1027	610
45°	784	795	826	851	869	605
55°	584	598	640	681	698	521
65°	383	403	458	508	527	380
75°	192	225	292	317	315	204
85°	40	70	74	68	68	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.2	1328.2	1328.2	1328.2	1328.2
2.5°	1334.3	1324.6	1329.5	1327.0	1322.1
5°	1329.5	1318.5	1324.6	1322.1	1322.1
7.5°	1318.5	1309.9	1314.8	1313.6	1314.8
10°	1305.1	1296.5	1303.8	1303.8	1302.6
12.5°	1286.7	1279.4	1288.0	1288.0	1289.2
15°	1266.0	1259.9	1268.4	1272.1	1273.3
17.5°	1240.3	1234.2	1245.2	1248.9	1252.6
20°	1211.0	1208.6	1219.6	1223.3	1228.1
22.5°	1178.1	1178.1	1189.1	1194.0	1201.3
25°	1145.1	1143.9	1157.3	1164.7	1169.5
27.5°	1106.1	1107.3	1124.4	1131.7	1137.8
30°	1064.5	1067.0	1086.5	1095.1	1103.6
32.5°	1020.6	1025.5	1047.5	1057.2	1065.8
35°	975.4	981.5	1006.0	1016.9	1026.7
37.5°	930.3	938.8	964.4	975.4	986.4
40°	882.6	890.0	919.3	932.7	946.1
42.5°	833.8	843.6	872.9	892.4	908.3
45°	783.8	794.7	826.5	850.9	869.2
47.5°	733.7	748.4	778.9	811.8	827.7
50°	683.7	698.3	732.5	769.1	785.0
52.5°	632.4	647.0	686.1	723.9	741.0
55°	583.5	598.2	639.7	681.2	698.3
57.5°	532.3	548.1	594.5	637.3	654.4
60°	482.2	498.1	548.1	593.3	611.6
62.5°	433.4	450.5	503.0	550.6	568.9
65°	383.3	402.9	457.8	507.9	527.4
67.5°	334.5	356.5	413.9	466.4	487.1
70°	285.7	311.3	372.3	426.1	446.8
72.5°	238.1	266.1	330.8	384.6	395.5
75°	191.7	224.6	291.8	317.4	315.0
77.5°	147.7	184.3	247.8	252.7	260.0
80°	107.4	147.7	185.6	195.3	190.4
82.5°	70.8	111.1	133.1	128.2	127.0
85°	40.3	69.6	74.5	68.4	68.4
87.5°	17.1	28.1	24.4	18.3	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)