

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: P260949

Luminaire Tested: **24CZ-LD5-40SE-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3668.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

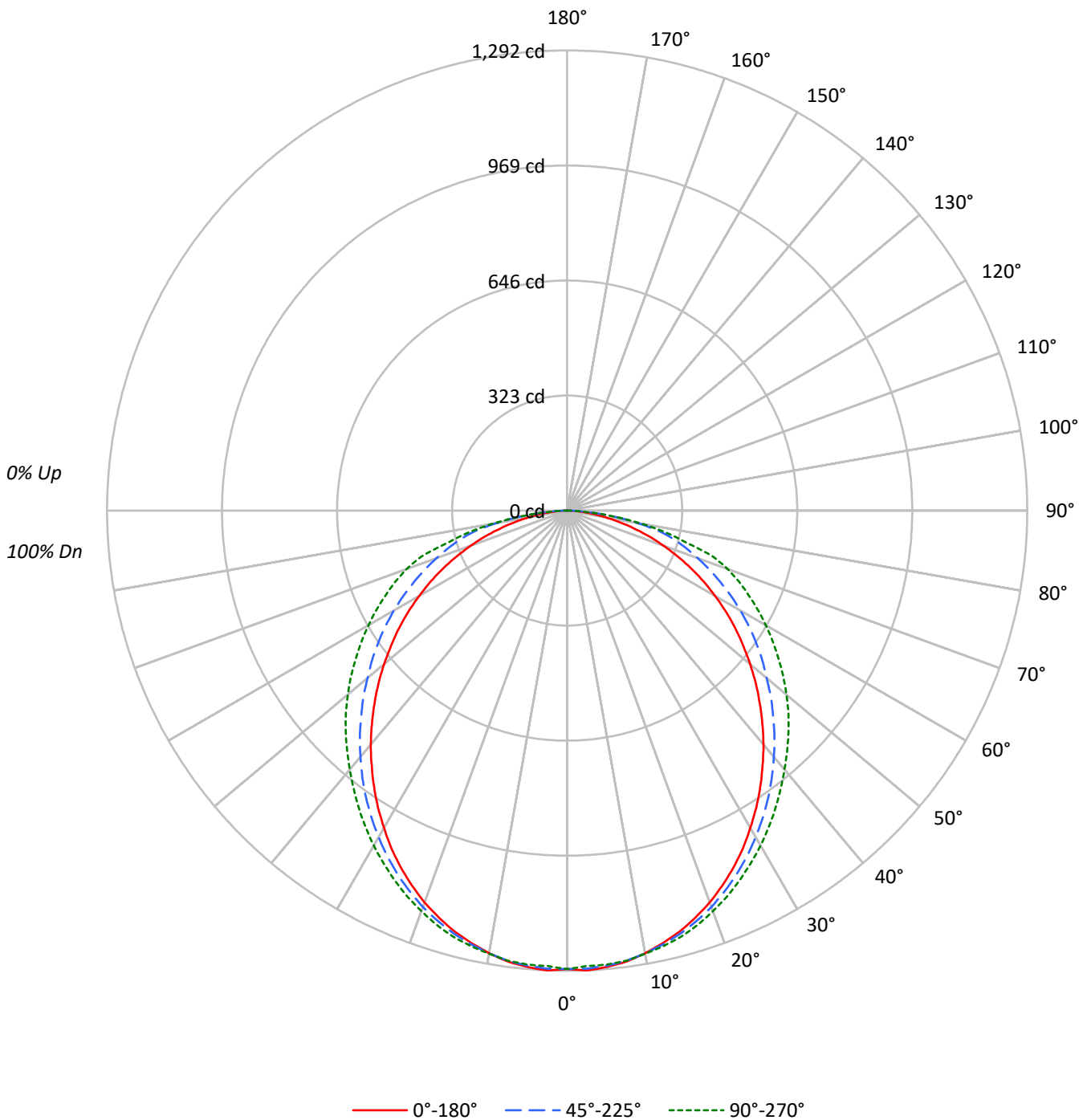
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1732	1732	1732
5°	1737	1732	1728
10°	1724	1724	1726
15°	1704	1713	1725
20°	1676	1696	1714
25°	1641	1672	1700
30°	1598	1645	1688
35°	1553	1617	1675
40°	1507	1586	1668
45°	1455	1556	1673
50°	1404	1530	1683
55°	1352	1520	1700
60°	1291	1511	1734
65°	1223	1511	1791
70°	1131	1537	1887
75°	1012	1606	1796
80°	847	1537	1644
85°	639	1183	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.3
10°-20°	346.2	9.4
20°-30°	517.6	14.1
30°-40°	614.0	16.7
40°-50°	632.0	17.2
50°-60°	579.7	15.8
60°-70°	468.8	12.8
70°-80°	304.2	8.3
80°-90°	83.9	2.3
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°	985.4	26.9
0°-40°	1599.4	43.6
0°-60°	2811.1	76.6
0°-90°	3668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1286	1277	1282	1281	1280	122
15°	1223	1218	1230	1234	1238	345
25°	1105	1106	1126	1137	1145	509
35°	946	953	985	1006	1020	591
45°	765	777	818	856	879	590
55°	576	594	648	701	725	515
65°	384	407	475	538	563	380
75°	195	231	309	345	345	207
85°	41	70	77	74	73	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.3	1287.3	1287.3	1287.3	1287.3
2.5°	1292.3	1282.3	1287.3	1286.0	1279.7
5°	1286.0	1277.2	1282.3	1281.0	1279.7
7.5°	1277.2	1268.4	1274.7	1273.5	1274.7
10°	1262.2	1254.6	1262.2	1263.4	1263.4
12.5°	1243.3	1237.0	1247.1	1249.6	1252.1
15°	1223.2	1218.2	1229.5	1234.5	1238.3
17.5°	1198.1	1194.3	1208.2	1214.4	1219.5
20°	1170.5	1169.2	1184.3	1190.6	1196.9
22.5°	1139.1	1139.1	1156.7	1164.2	1173.0
25°	1105.2	1106.4	1126.5	1136.6	1145.4
27.5°	1068.8	1070.0	1093.9	1106.4	1116.5
30°	1028.6	1033.6	1058.7	1075.0	1086.3
32.5°	988.4	994.7	1022.3	1041.1	1053.7
35°	945.7	953.2	984.6	1006.0	1019.8
37.5°	901.7	910.5	944.4	968.3	984.6
40°	857.8	867.8	903.0	930.6	949.4
42.5°	811.3	822.6	861.5	894.2	914.3
45°	764.8	777.4	817.6	856.5	879.1
47.5°	718.4	733.4	776.1	818.8	842.7
50°	670.6	685.7	730.9	779.9	803.8
52.5°	622.9	640.5	690.7	741.0	764.8
55°	576.4	594.0	648.0	700.8	724.6
57.5°	528.7	546.3	605.3	660.6	684.5
60°	479.7	499.8	561.4	617.9	644.3
62.5°	432.0	453.4	518.7	579.0	604.1
65°	384.3	406.9	474.7	537.5	562.6
67.5°	335.3	361.7	432.0	496.1	522.4
70°	287.6	316.5	390.6	454.6	479.7
72.5°	241.1	272.5	349.1	414.4	429.5
75°	194.7	231.1	308.9	345.4	345.4
77.5°	150.7	190.9	263.7	277.5	285.1
80°	109.3	153.2	198.4	214.8	212.2
82.5°	72.8	116.8	141.9	141.9	138.1
85°	41.4	70.3	76.6	74.1	72.8
87.5°	17.6	26.4	23.9	18.8	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)