

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: P261366

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261366
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-LD5-40SE-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3365.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

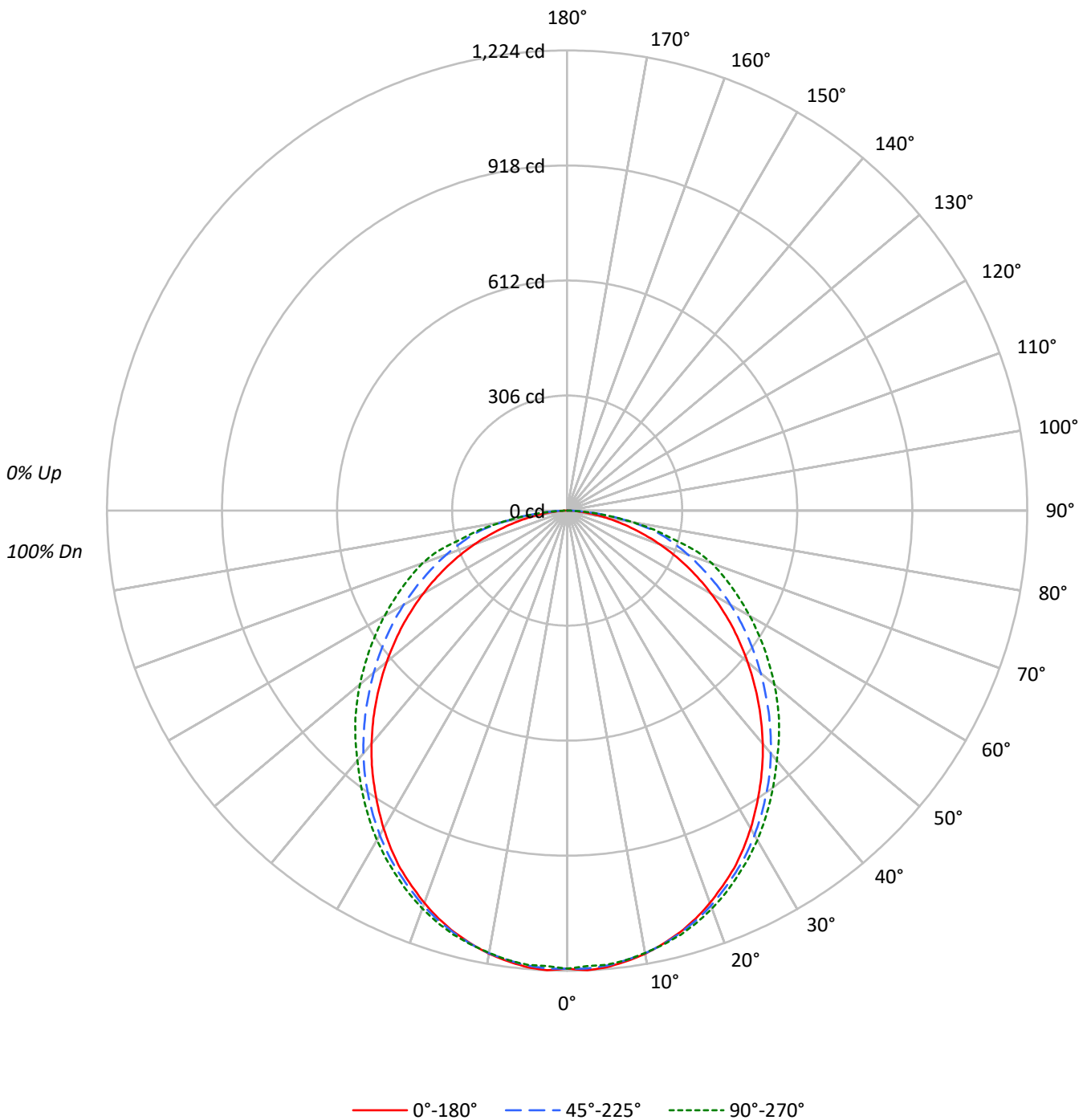
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1639	1639	1639
5°	1647	1641	1638
10°	1635	1634	1632
15°	1617	1620	1627
20°	1590	1602	1613
25°	1559	1576	1592
30°	1517	1548	1573
35°	1469	1515	1547
40°	1422	1481	1524
45°	1368	1442	1517
50°	1312	1406	1507
55°	1255	1376	1502
60°	1190	1353	1510
65°	1119	1337	1540
70°	1031	1343	1612
75°	914	1391	1502
80°	763	1319	1354
85°	570	1054	968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	3.4
10°-20°	327.6	9.7
20°-30°	488.1	14.5
30°-40°	574.6	17.1
40°-50°	583.9	17.4
50°-60°	525.0	15.6
60°-70°	414.8	12.3
70°-80°	263.1	7.8
80°-90°	72.6	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°	930.9	27.7
0°-40°	1505.5	44.7
0°-60°	2614.5	77.7
0°-90°	3365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1219	1209	1215	1213	1213	116
15°	1161	1156	1163	1167	1168	327
25°	1050	1049	1061	1068	1073	483
35°	895	900	923	933	942	560
45°	719	729	758	780	797	555
55°	535	549	587	625	640	478
65°	352	370	420	466	484	348
75°	176	206	268	291	289	187
85°	37	64	68	63	63	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.2	1218.2	1218.2	1218.2	1218.2
2.5°	1223.8	1214.8	1219.3	1217.1	1212.6
5°	1219.3	1209.2	1214.8	1212.6	1212.6
7.5°	1209.2	1201.4	1205.9	1204.8	1205.9
10°	1196.9	1189.1	1195.8	1195.8	1194.7
12.5°	1180.1	1173.4	1181.2	1181.2	1182.4
15°	1161.1	1155.5	1163.3	1166.7	1167.8
17.5°	1137.6	1132.0	1142.1	1145.4	1148.8
20°	1110.7	1108.5	1118.5	1121.9	1126.4
22.5°	1080.5	1080.5	1090.6	1095.0	1101.7
25°	1050.2	1049.1	1061.4	1068.2	1072.6
27.5°	1014.4	1015.5	1031.2	1037.9	1043.5
30°	976.3	978.6	996.5	1004.3	1012.2
32.5°	936.0	940.5	960.7	969.6	977.5
35°	894.6	900.2	922.6	932.7	941.6
37.5°	853.2	861.0	884.5	894.6	904.7
40°	809.5	816.2	843.1	855.4	867.7
42.5°	764.7	773.7	800.6	818.5	833.0
45°	718.8	728.9	758.0	780.4	797.2
47.5°	672.9	686.4	714.3	744.6	759.1
50°	627.0	640.4	671.8	705.4	719.9
52.5°	580.0	593.4	629.2	664.0	679.6
55°	535.2	548.6	586.7	624.8	640.4
57.5°	488.2	502.7	545.3	584.5	600.1
60°	442.3	456.8	502.7	544.2	561.0
62.5°	397.5	413.2	461.3	505.0	521.8
65°	351.6	369.5	419.9	465.8	483.7
67.5°	306.8	326.9	379.6	427.7	446.7
70°	262.0	285.5	341.5	390.8	409.8
72.5°	218.3	244.1	303.4	352.7	362.8
75°	175.8	206.0	267.6	291.1	288.9
77.5°	135.5	169.1	227.3	231.8	238.5
80°	98.5	135.5	170.2	179.1	174.7
82.5°	64.9	101.9	122.0	117.6	116.4
85°	36.9	63.8	68.3	62.7	62.7
87.5°	15.7	25.8	22.4	16.8	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)