

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: P263424

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263424  
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-LD5-65-SQP-UNV-L92765-W2A1-U-4500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3920.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 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

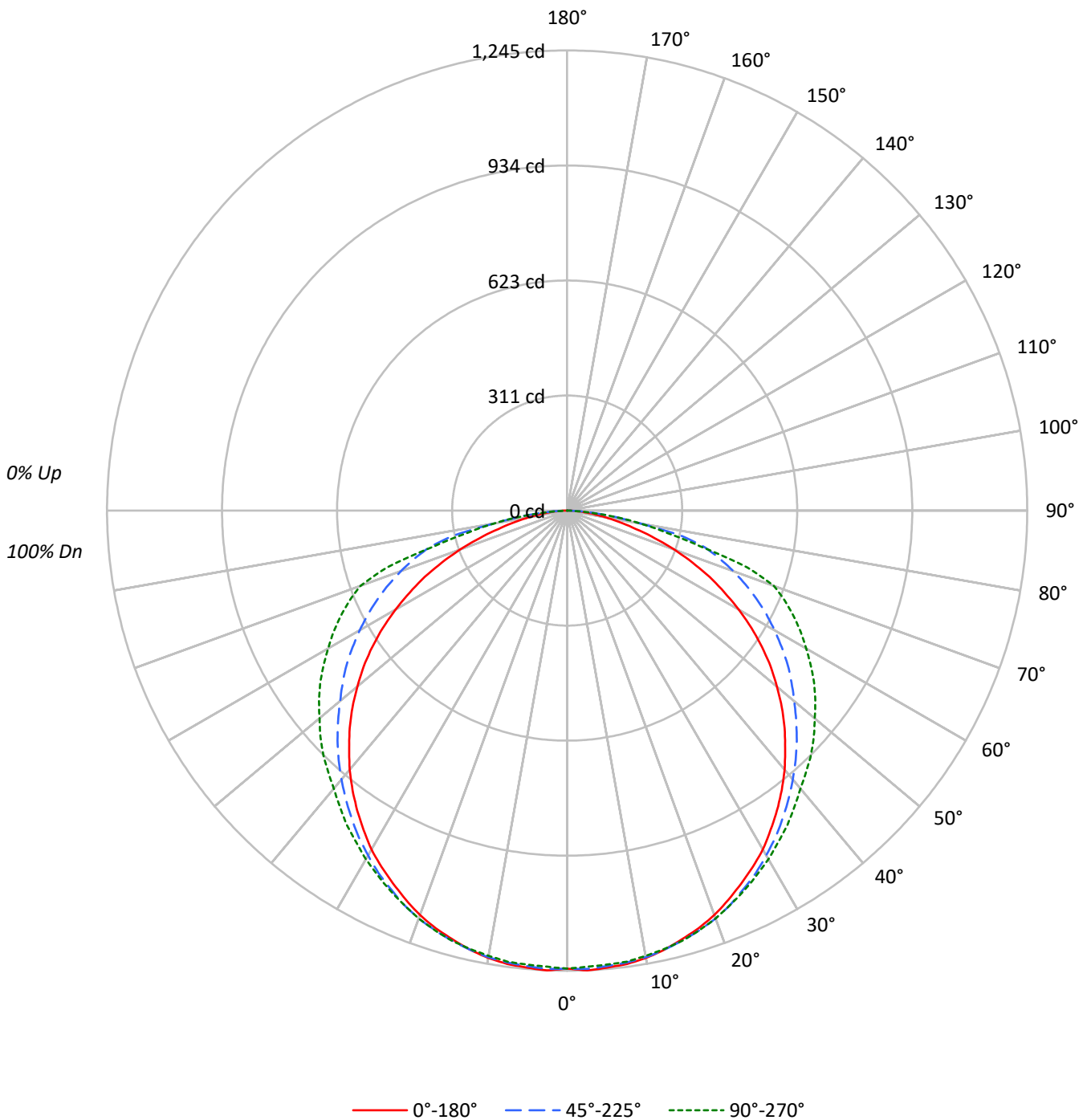
Input Watts (W): 49.848  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1667	1667	1667
5°	1676	1671	1665
10°	1679	1676	1671
15°	1673	1678	1678
20°	1667	1682	1682
25°	1653	1677	1683
30°	1645	1674	1692
35°	1626	1670	1706
40°	1607	1668	1725
45°	1584	1672	1776
50°	1551	1678	1831
55°	1510	1710	1914
60°	1444	1743	2011
65°	1354	1798	2153
70°	1211	1880	2342
75°	1000	2010	1937
80°	816	1554	1569
85°	656	1031	969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.7	3.0
10°-20°	339.6	8.7
20°-30°	519.0	13.2
30°-40°	634.8	16.2
40°-50°	679.2	17.3
50°-60°	650.4	16.6
60°-70°	550.2	14.0
70°-80°	348.8	8.9
80°-90°	80.2	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°	976.3	24.9
0°-40°	1611.1	41.1
0°-60°	2940.8	75.0
0°-90°	3920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3920.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1239	1239	1239	1239	1239	
5°	1241	1235	1237	1235	1233	118
15°	1201	1199	1205	1205	1205	339
25°	1114	1114	1130	1134	1134	514
35°	990	996	1016	1031	1039	619
45°	832	846	879	915	933	641
55°	644	664	729	790	816	574
65°	425	466	565	642	676	419
75°	192	271	387	385	373	209
85°	42	65	67	61	63	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1245.3	1239.2	1241.2	1239.2	1235.1
5°	1241.2	1235.1	1237.2	1235.1	1233.1
7.5°	1237.2	1231.1	1233.1	1231.1	1231.1
10°	1229.1	1223.0	1227.0	1225.0	1223.0
12.5°	1216.9	1212.9	1216.9	1214.9	1214.9
15°	1200.7	1198.7	1204.8	1204.8	1204.8
17.5°	1184.5	1182.5	1190.6	1190.6	1190.6
20°	1164.3	1162.2	1174.4	1174.4	1174.4
22.5°	1140.0	1137.9	1154.1	1154.1	1154.1
25°	1113.6	1113.6	1129.8	1133.9	1133.9
27.5°	1087.3	1087.3	1105.5	1111.6	1111.6
30°	1059.0	1059.0	1077.2	1085.3	1089.3
32.5°	1024.6	1028.6	1048.9	1059.0	1063.0
35°	990.1	996.2	1016.5	1030.6	1038.7
37.5°	953.7	959.8	984.1	1000.3	1010.4
40°	915.2	923.3	949.6	969.9	982.0
42.5°	872.7	884.8	915.2	941.5	957.7
45°	832.2	846.4	878.8	915.2	933.4
47.5°	787.7	803.9	840.3	886.9	905.1
50°	741.1	757.3	801.8	854.5	874.7
52.5°	694.5	712.7	765.4	822.1	846.4
55°	643.9	664.1	728.9	789.7	816.0
57.5°	591.2	615.5	688.4	753.2	781.6
60°	536.6	566.9	647.9	716.8	747.2
62.5°	479.9	516.3	607.4	680.3	712.7
65°	425.2	465.7	564.9	641.9	676.3
67.5°	366.5	417.1	522.4	605.4	637.8
70°	307.8	366.5	477.9	562.9	595.3
72.5°	249.1	319.9	433.3	510.3	510.3
75°	192.4	271.3	386.7	384.7	372.6
77.5°	145.8	226.8	317.9	271.3	273.3
80°	105.3	182.2	200.5	200.5	202.5
82.5°	70.9	139.7	129.6	127.6	131.6
85°	42.5	64.8	66.8	60.7	62.8
87.5°	20.2	22.3	18.2	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)