

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: P263425

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263425  
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-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4000.0 lumens  
Efficiency: N/A  
Efficacy: 79.9 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

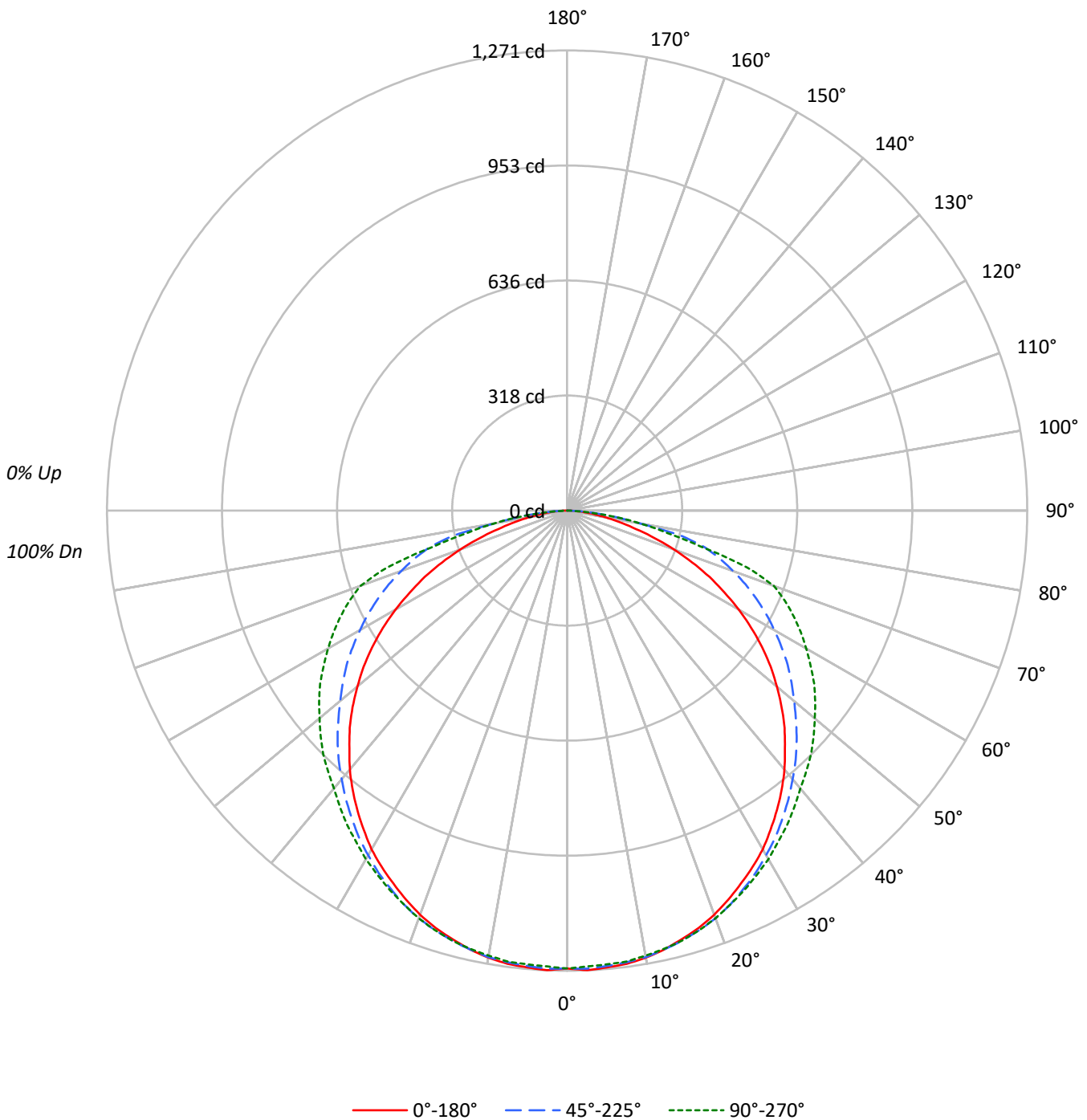
Input Watts (W): 50.034  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1701	1701	1701
5°	1711	1705	1699
10°	1713	1711	1705
15°	1707	1712	1712
20°	1701	1716	1716
25°	1687	1712	1718
30°	1679	1708	1727
35°	1659	1704	1741
40°	1640	1702	1760
45°	1616	1706	1812
50°	1583	1713	1868
55°	1541	1745	1953
60°	1473	1779	2052
65°	1381	1835	2197
70°	1236	1918	2389
75°	1020	2051	1976
80°	832	1585	1601
85°	670	1053	990



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.1	3.0
10°-20°	346.5	8.7
20°-30°	529.6	13.2
30°-40°	647.8	16.2
40°-50°	693.1	17.3
50°-60°	663.7	16.6
60°-70°	561.4	14.0
70°-80°	355.9	8.9
80°-90°	81.9	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°	996.3	24.9
0°-40°	1644.0	41.1
0°-60°	3000.8	75.0
0°-90°	4000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1266	1260	1262	1260	1258	121
15°	1225	1223	1229	1229	1229	346
25°	1136	1136	1153	1157	1157	524
35°	1010	1016	1037	1052	1060	632
45°	849	864	897	934	952	654
55°	657	678	744	806	833	586
65°	434	475	576	655	690	427
75°	196	277	395	393	380	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°	1264.5	1264.5	1264.5	1264.5	1264.5
2.5°	1270.7	1264.5	1266.5	1264.5	1260.3
5°	1266.5	1260.3	1262.4	1260.3	1258.3
7.5°	1262.4	1256.2	1258.3	1256.2	1256.2
10°	1254.1	1247.9	1252.1	1250.0	1247.9
12.5°	1241.7	1237.6	1241.7	1239.7	1239.7
15°	1225.2	1223.2	1229.4	1229.4	1229.4
17.5°	1208.7	1206.6	1214.9	1214.9	1214.9
20°	1188.0	1186.0	1198.4	1198.4	1198.4
22.5°	1163.2	1161.2	1177.7	1177.7	1177.7
25°	1136.4	1136.4	1152.9	1157.0	1157.0
27.5°	1109.5	1109.5	1128.1	1134.3	1134.3
30°	1080.6	1080.6	1099.2	1107.4	1111.6
32.5°	1045.5	1049.6	1070.3	1080.6	1084.7
35°	1010.3	1016.5	1037.2	1051.7	1059.9
37.5°	973.1	979.3	1004.1	1020.7	1031.0
40°	933.9	942.2	969.0	989.7	1002.1
42.5°	890.5	902.9	933.9	960.8	977.3
45°	849.2	863.6	896.7	933.9	952.5
47.5°	803.7	820.3	857.4	905.0	923.6
50°	756.2	772.7	818.2	871.9	892.6
52.5°	708.7	727.3	781.0	838.9	863.6
55°	657.0	677.7	743.8	805.8	832.7
57.5°	603.3	628.1	702.5	768.6	797.5
60°	547.5	578.5	661.2	731.4	762.4
62.5°	489.7	526.9	619.8	694.2	727.3
65°	433.9	475.2	576.5	655.0	690.1
67.5°	374.0	425.6	533.1	617.8	650.8
70°	314.1	374.0	487.6	574.4	607.4
72.5°	254.1	326.4	442.2	520.7	520.7
75°	196.3	276.9	394.6	392.6	380.2
77.5°	148.8	231.4	324.4	276.9	278.9
80°	107.4	186.0	204.5	204.5	206.6
82.5°	72.3	142.6	132.2	130.2	134.3
85°	43.4	66.1	68.2	62.0	64.1
87.5°	20.7	22.7	18.6	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)