

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: P263419

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263419  
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-LD5-60-SQP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3790.0 lumens  
Efficiency: N/A  
Efficacy: 81.8 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

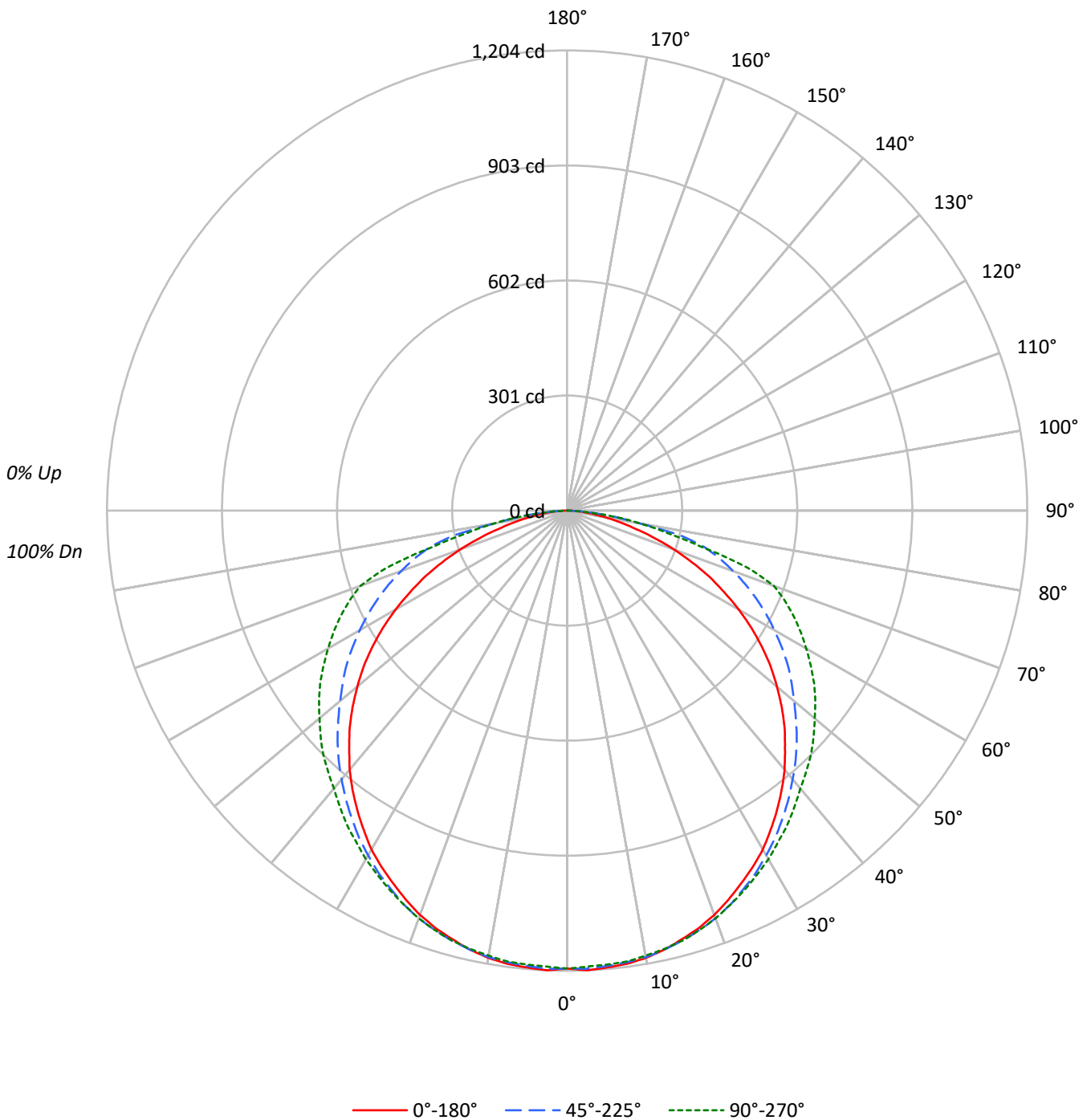
Input Watts (W): 46.314  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1612	1612	1612
5°	1621	1615	1610
10°	1624	1621	1615
15°	1617	1623	1623
20°	1612	1626	1626
25°	1598	1622	1628
30°	1591	1618	1636
35°	1572	1614	1650
40°	1554	1613	1668
45°	1531	1617	1717
50°	1500	1623	1770
55°	1460	1653	1851
60°	1396	1686	1944
65°	1309	1739	2082
70°	1171	1817	2264
75°	967	1944	1873
80°	789	1502	1517
85°	634	997	937



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.8	3.0
10°-20°	328.3	8.7
20°-30°	501.8	13.2
30°-40°	613.8	16.2
40°-50°	656.7	17.3
50°-60°	628.9	16.6
60°-70°	532.0	14.0
70°-80°	337.2	8.9
80°-90°	77.6	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°	944.0	24.9
0°-40°	1557.7	41.1
0°-60°	2843.3	75.0
0°-90°	3790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3790.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1200	1194	1196	1194	1192	114
15°	1161	1159	1165	1165	1165	328
25°	1077	1077	1092	1096	1096	497
35°	957	963	983	996	1004	599
45°	805	818	850	885	902	620
55°	622	642	705	764	789	555
65°	411	450	546	621	654	405
75°	186	262	374	372	360	202
85°	41	63	65	59	61	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1198.1	1198.1	1198.1	1198.1	1198.1
2.5°	1204.0	1198.1	1200.0	1198.1	1194.2
5°	1200.0	1194.2	1196.1	1194.2	1192.2
7.5°	1196.1	1190.3	1192.2	1190.3	1190.3
10°	1188.3	1182.4	1186.3	1184.4	1182.4
12.5°	1176.6	1172.6	1176.6	1174.6	1174.6
15°	1160.9	1158.9	1164.8	1164.8	1164.8
17.5°	1145.2	1143.3	1151.1	1151.1	1151.1
20°	1125.7	1123.7	1135.4	1135.4	1135.4
22.5°	1102.2	1100.2	1115.9	1115.9	1115.9
25°	1076.7	1076.7	1092.4	1096.3	1096.3
27.5°	1051.3	1051.3	1068.9	1074.8	1074.8
30°	1023.9	1023.9	1041.5	1049.3	1053.2
32.5°	990.6	994.5	1014.1	1023.9	1027.8
35°	957.3	963.2	982.7	996.5	1004.3
37.5°	922.1	927.9	951.4	967.1	976.9
40°	884.9	892.7	918.1	937.7	949.5
42.5°	843.8	855.5	884.9	910.3	926.0
45°	804.6	818.3	849.6	884.9	902.5
47.5°	761.5	777.2	812.4	857.5	875.1
50°	716.5	732.2	775.2	826.1	845.7
52.5°	671.5	689.1	740.0	794.8	818.3
55°	622.5	642.1	704.8	763.5	788.9
57.5°	571.6	595.1	665.6	728.3	755.7
60°	518.8	548.1	626.5	693.0	722.4
62.5°	464.0	499.2	587.3	657.8	689.1
65°	411.1	450.3	546.2	620.6	653.9
67.5°	354.3	403.3	505.1	585.3	616.7
70°	297.6	354.3	462.0	544.2	575.6
72.5°	240.8	309.3	418.9	493.3	493.3
75°	186.0	262.3	373.9	372.0	360.2
77.5°	141.0	219.3	307.4	262.3	264.3
80°	101.8	176.2	193.8	193.8	195.8
82.5°	68.5	135.1	125.3	123.3	127.2
85°	41.1	62.6	64.6	58.7	60.7
87.5°	19.6	21.5	17.6	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)