

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: P263287

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263287  
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-L82765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4226.0 lumens  
Efficiency: N/A  
Efficacy: 86.1 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

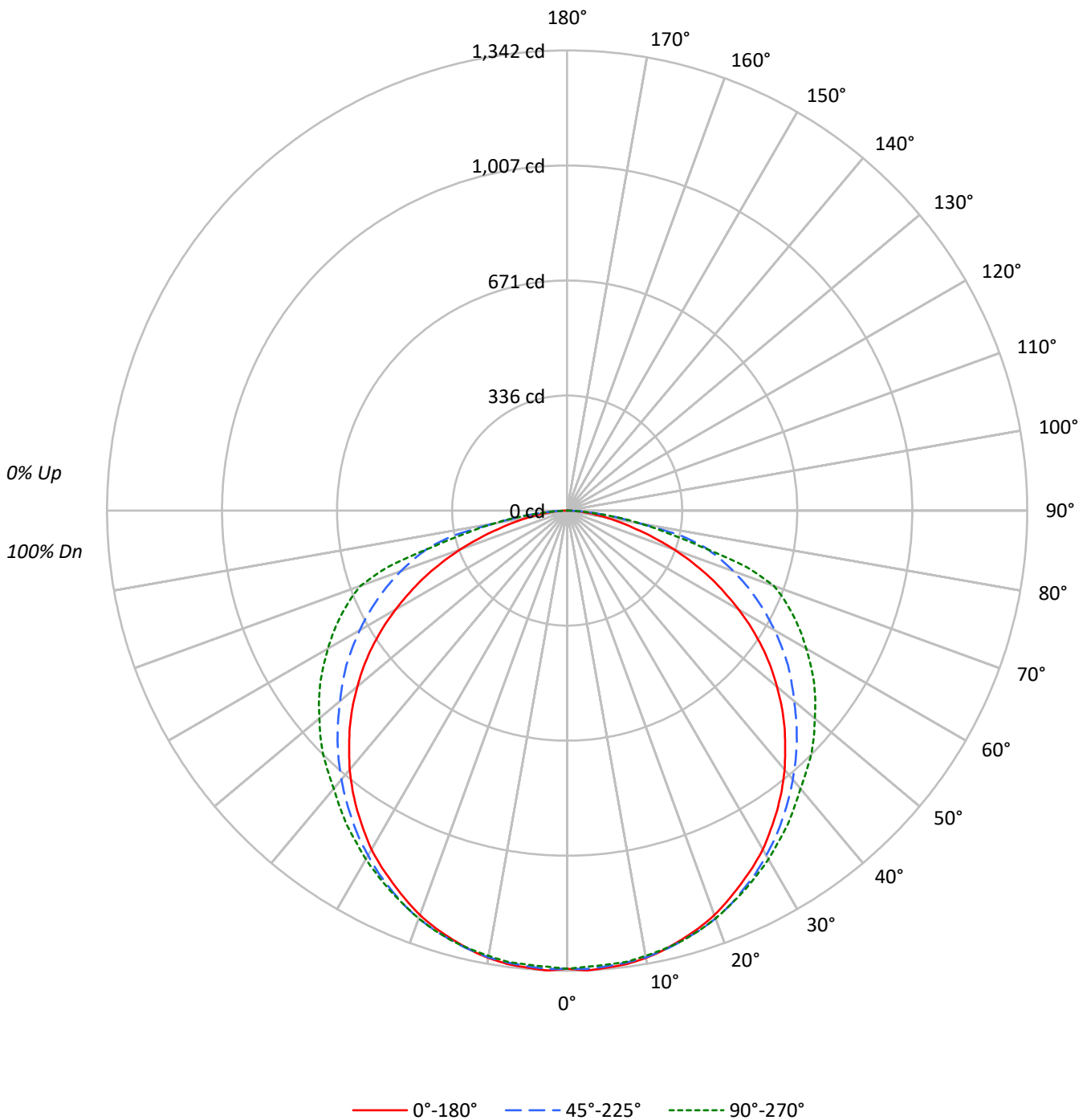
Input Watts (W): 49.104  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1797	1797	1797
5°	1807	1801	1796
10°	1810	1807	1801
15°	1803	1809	1809
20°	1797	1813	1813
25°	1782	1808	1815
30°	1774	1804	1825
35°	1753	1800	1839
40°	1733	1798	1860
45°	1707	1803	1915
50°	1672	1809	1974
55°	1628	1843	2064
60°	1557	1880	2168
65°	1459	1939	2321
70°	1305	2027	2525
75°	1078	2167	2088
80°	879	1674	1691
85°	707	1112	1045



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.9	3.0
10°-20°	366.1	8.7
20°-30°	559.5	13.2
30°-40°	684.4	16.2
40°-50°	732.3	17.3
50°-60°	701.2	16.6
60°-70°	593.2	14.0
70°-80°	376.0	8.9
80°-90°	86.5	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°	1052.5	24.9
0°-40°	1736.9	41.1
0°-60°	3170.3	75.0
0°-90°	4226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4226.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1338	1332	1334	1332	1329	127
15°	1294	1292	1299	1299	1299	366
25°	1201	1201	1218	1222	1222	554
35°	1067	1074	1096	1111	1120	668
45°	897	912	947	987	1006	691
55°	694	716	786	851	880	619
65°	458	502	609	692	729	452
75°	207	292	417	415	402	225
85°	46	70	72	66	68	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1335.9	1335.9	1335.9	1335.9	1335.9
2.5°	1342.5	1335.9	1338.1	1335.9	1331.6
5°	1338.1	1331.6	1333.7	1331.6	1329.4
7.5°	1333.7	1327.2	1329.4	1327.2	1327.2
10°	1325.0	1318.5	1322.8	1320.6	1318.5
12.5°	1311.9	1307.5	1311.9	1309.7	1309.7
15°	1294.4	1292.3	1298.8	1298.8	1298.8
17.5°	1277.0	1274.8	1283.5	1283.5	1283.5
20°	1255.2	1253.0	1266.1	1266.1	1266.1
22.5°	1229.0	1226.8	1244.2	1244.2	1244.2
25°	1200.6	1200.6	1218.0	1222.4	1222.4
27.5°	1172.2	1172.2	1191.8	1198.4	1198.4
30°	1141.6	1141.6	1161.3	1170.0	1174.4
32.5°	1104.5	1108.9	1130.7	1141.6	1146.0
35°	1067.4	1074.0	1095.8	1111.1	1119.8
37.5°	1028.1	1034.7	1060.9	1078.3	1089.3
40°	986.7	995.4	1023.8	1045.6	1058.7
42.5°	940.8	953.9	986.7	1015.0	1032.5
45°	897.2	912.4	947.4	986.7	1006.3
47.5°	849.1	866.6	905.9	956.1	975.7
50°	798.9	816.4	864.4	921.2	943.0
52.5°	748.7	768.4	825.1	886.2	912.4
55°	694.2	716.0	785.8	851.3	879.7
57.5°	637.4	663.6	742.2	812.0	842.6
60°	578.5	611.2	698.5	772.7	805.5
62.5°	517.3	556.6	654.9	733.4	768.4
65°	458.4	502.1	609.0	692.0	729.1
67.5°	395.1	449.7	563.2	652.7	687.6
70°	331.8	395.1	515.2	606.8	641.8
72.5°	268.5	344.9	467.1	550.1	550.1
75°	207.4	292.5	416.9	414.7	401.6
77.5°	157.2	244.5	342.7	292.5	294.7
80°	113.5	196.5	216.1	216.1	218.3
82.5°	76.4	150.6	139.7	137.5	141.9
85°	45.8	69.9	72.0	65.5	67.7
87.5°	21.8	24.0	19.6	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)