

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: P263118

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263118  
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-LD5-75-SQP-UNV-L83050-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: 4990.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

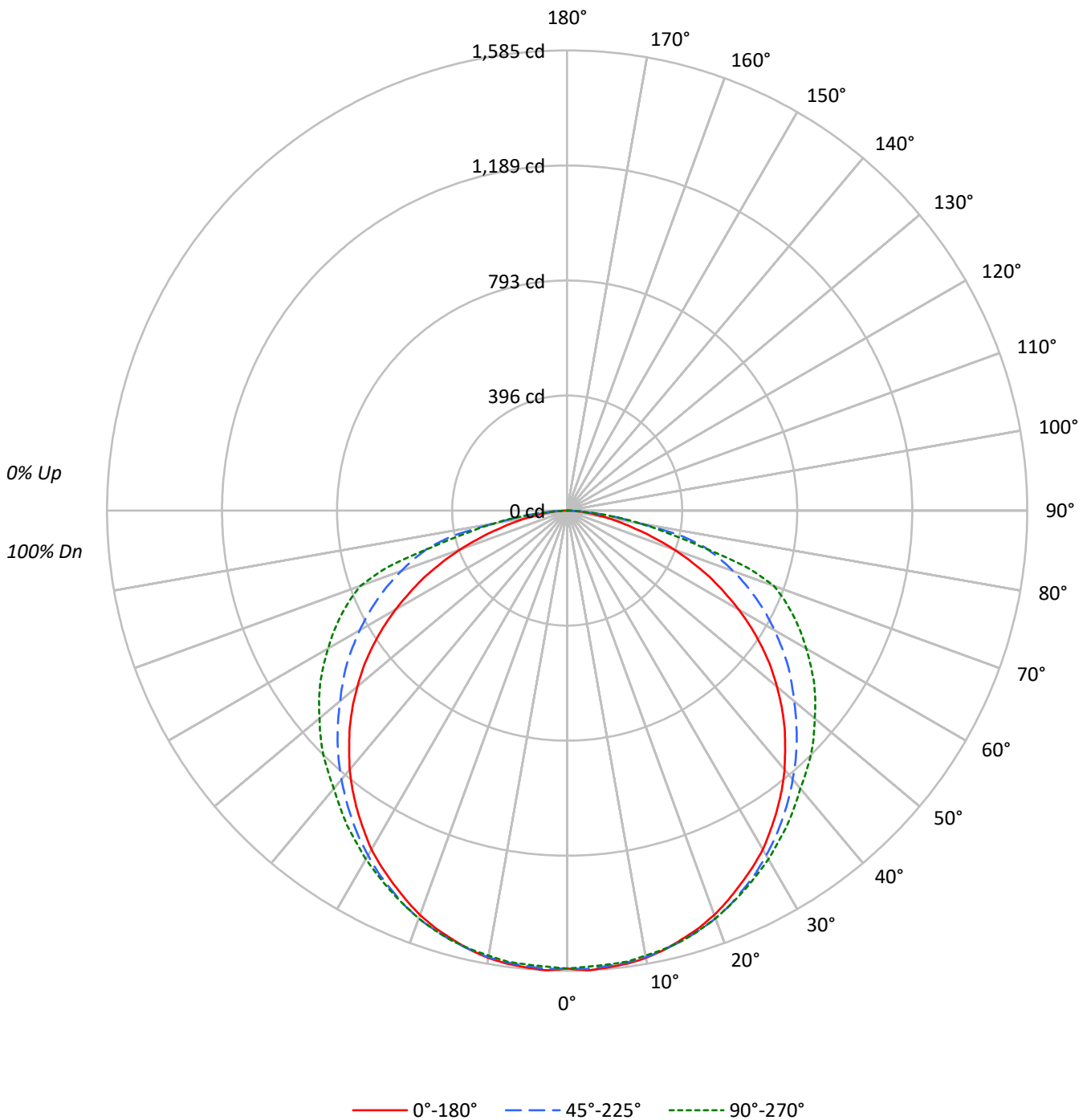
Input Watts (W): 58.404  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2122	2122	2122
5°	2134	2127	2120
10°	2137	2134	2127
15°	2129	2136	2136
20°	2122	2141	2141
25°	2105	2135	2143
30°	2094	2130	2154
35°	2070	2125	2172
40°	2046	2123	2196
45°	2016	2128	2261
50°	1975	2137	2331
55°	1923	2177	2437
60°	1838	2220	2559
65°	1723	2289	2741
70°	1541	2393	2981
75°	1273	2559	2466
80°	1038	1977	1998
85°	835	1314	1233



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	3.0
10°-20°	432.3	8.7
20°-30°	660.7	13.2
30°-40°	808.1	16.2
40°-50°	864.6	17.3
50°-60°	828.0	16.6
60°-70°	700.4	14.0
70°-80°	444.0	8.9
80°-90°	102.1	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°	1242.8	24.9
0°-40°	2050.9	41.1
0°-60°	3743.5	75.0
0°-90°	4990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1577	1577	1577	1577	1577	
5°	1580	1572	1575	1572	1570	150
15°	1528	1526	1534	1534	1534	432
25°	1418	1418	1438	1443	1443	654
35°	1260	1268	1294	1312	1322	789
45°	1059	1077	1119	1165	1188	816
55°	820	845	928	1005	1039	731
65°	541	593	719	817	861	533
75°	245	345	492	490	474	266
85°	54	82	85	77	80	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1577.4	1577.4	1577.4	1577.4	1577.4
2.5°	1585.2	1577.4	1580.0	1577.4	1572.3
5°	1580.0	1572.3	1574.9	1572.3	1569.7
7.5°	1574.9	1567.1	1569.7	1567.1	1567.1
10°	1564.5	1556.8	1562.0	1559.4	1556.8
12.5°	1549.1	1543.9	1549.1	1546.5	1546.5
15°	1528.5	1525.9	1533.6	1533.6	1533.6
17.5°	1507.8	1505.3	1515.6	1515.6	1515.6
20°	1482.1	1479.5	1495.0	1495.0	1495.0
22.5°	1451.1	1448.6	1469.2	1469.2	1469.2
25°	1417.6	1417.6	1438.2	1443.4	1443.4
27.5°	1384.1	1384.1	1407.3	1415.0	1415.0
30°	1348.0	1348.0	1371.2	1381.5	1386.7
32.5°	1304.2	1309.4	1335.1	1348.0	1353.2
35°	1260.4	1268.1	1293.9	1311.9	1322.3
37.5°	1214.0	1221.7	1252.7	1273.3	1286.2
40°	1165.0	1175.3	1208.8	1234.6	1250.1
42.5°	1110.9	1126.4	1165.0	1198.5	1219.2
45°	1059.4	1077.4	1118.6	1165.0	1188.2
47.5°	1002.6	1023.3	1069.7	1128.9	1152.1
50°	943.4	964.0	1020.7	1087.7	1113.5
52.5°	884.1	907.3	974.3	1046.5	1077.4
55°	819.6	845.4	927.9	1005.2	1038.7
57.5°	752.6	783.6	876.4	958.8	994.9
60°	683.0	721.7	824.8	912.4	951.1
62.5°	610.9	657.3	773.3	866.0	907.3
65°	541.3	592.8	719.1	817.1	860.9
67.5°	466.5	531.0	665.0	770.7	811.9
70°	391.8	466.5	608.3	716.5	757.8
72.5°	317.0	407.2	551.6	649.5	649.5
75°	244.9	345.4	492.3	489.7	474.3
77.5°	185.6	288.7	404.7	345.4	348.0
80°	134.0	232.0	255.2	255.2	257.8
82.5°	90.2	177.8	165.0	162.4	167.5
85°	54.1	82.5	85.1	77.3	79.9
87.5°	25.8	28.4	23.2	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)