

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: P263443

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263443  
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-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: 4613.0 lumens  
Efficiency: N/A  
Efficacy: 77.1 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

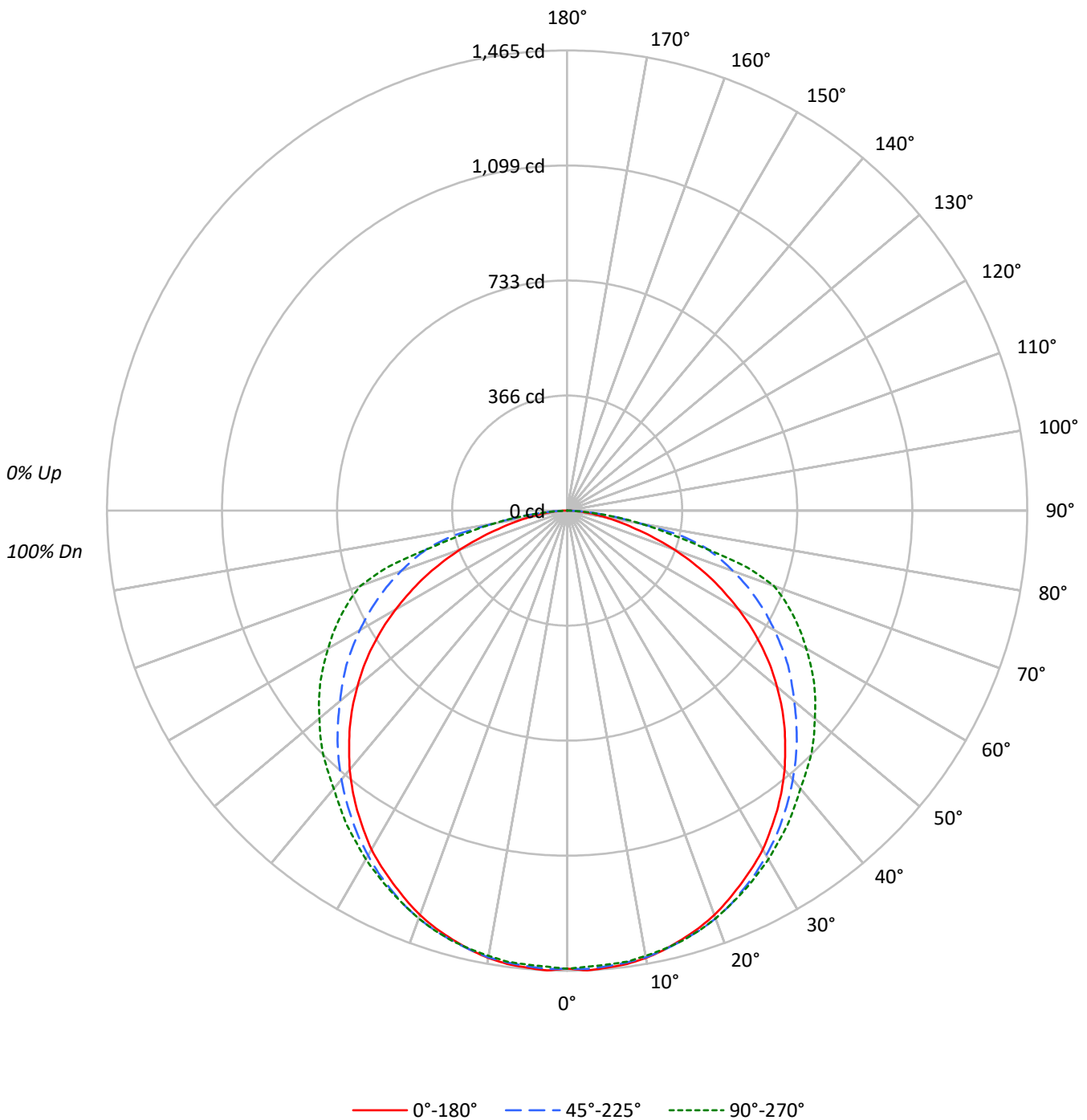
Input Watts (W): 59.799  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1962	1962	1962
5°	1973	1966	1960
10°	1976	1973	1966
15°	1968	1975	1975
20°	1962	1979	1979
25°	1946	1974	1981
30°	1936	1969	1992
35°	1914	1965	2008
40°	1892	1963	2030
45°	1863	1968	2090
50°	1825	1975	2155
55°	1777	2012	2253
60°	1699	2052	2366
65°	1593	2117	2534
70°	1425	2212	2756
75°	1177	2366	2279
80°	960	1828	1846
85°	772	1213	1141



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.5	3.0
10°-20°	399.6	8.7
20°-30°	610.8	13.2
30°-40°	747.0	16.2
40°-50°	799.3	17.3
50°-60°	765.4	16.6
60°-70°	647.5	14.0
70°-80°	410.4	8.9
80°-90°	94.4	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°	1148.9	24.9
0°-40°	1896.0	41.1
0°-60°	3460.7	75.0
0°-90°	4613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4613.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1461	1454	1456	1454	1451	139
15°	1413	1411	1418	1418	1418	399
25°	1310	1310	1330	1334	1334	605
35°	1165	1172	1196	1213	1222	729
45°	979	996	1034	1077	1098	754
55°	758	782	858	929	960	676
65°	500	548	665	755	796	493
75°	226	319	455	453	438	246
85°	50	76	79	72	74	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1458.3	1458.3	1458.3	1458.3	1458.3
2.5°	1465.4	1458.3	1460.6	1458.3	1453.5
5°	1460.6	1453.5	1455.9	1453.5	1451.1
7.5°	1455.9	1448.7	1451.1	1448.7	1448.7
10°	1446.3	1439.2	1444.0	1441.6	1439.2
12.5°	1432.0	1427.3	1432.0	1429.7	1429.7
15°	1413.0	1410.6	1417.7	1417.7	1417.7
17.5°	1393.9	1391.5	1401.1	1401.1	1401.1
20°	1370.1	1367.7	1382.0	1382.0	1382.0
22.5°	1341.5	1339.1	1358.2	1358.2	1358.2
25°	1310.5	1310.5	1329.6	1334.4	1334.4
27.5°	1279.5	1279.5	1301.0	1308.1	1308.1
30°	1246.2	1246.2	1267.6	1277.2	1281.9
32.5°	1205.7	1210.4	1234.3	1246.2	1251.0
35°	1165.2	1172.3	1196.2	1212.8	1222.4
37.5°	1122.3	1129.4	1158.0	1177.1	1189.0
40°	1077.0	1086.5	1117.5	1141.3	1155.6
42.5°	1027.0	1041.3	1077.0	1108.0	1127.1
45°	979.3	996.0	1034.1	1077.0	1098.5
47.5°	926.9	946.0	988.8	1043.7	1065.1
50°	872.1	891.2	943.6	1005.5	1029.4
52.5°	817.3	838.7	900.7	967.4	996.0
55°	757.7	781.5	857.8	929.3	960.3
57.5°	695.8	724.4	810.1	886.4	919.7
60°	631.4	667.2	762.5	843.5	879.2
62.5°	564.7	607.6	714.8	800.6	838.7
65°	500.4	548.0	664.8	755.3	795.8
67.5°	431.3	490.9	614.8	712.4	750.6
70°	362.2	431.3	562.3	662.4	700.5
72.5°	293.1	376.5	509.9	600.5	600.5
75°	226.4	319.3	455.1	452.7	438.4
77.5°	171.6	266.9	374.1	319.3	321.7
80°	123.9	214.4	235.9	235.9	238.3
82.5°	83.4	164.4	152.5	150.1	154.9
85°	50.0	76.2	78.6	71.5	73.9
87.5°	23.8	26.2	21.4	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)