

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: P263307

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263307  
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-L82765-W2A1-U-4500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5069.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

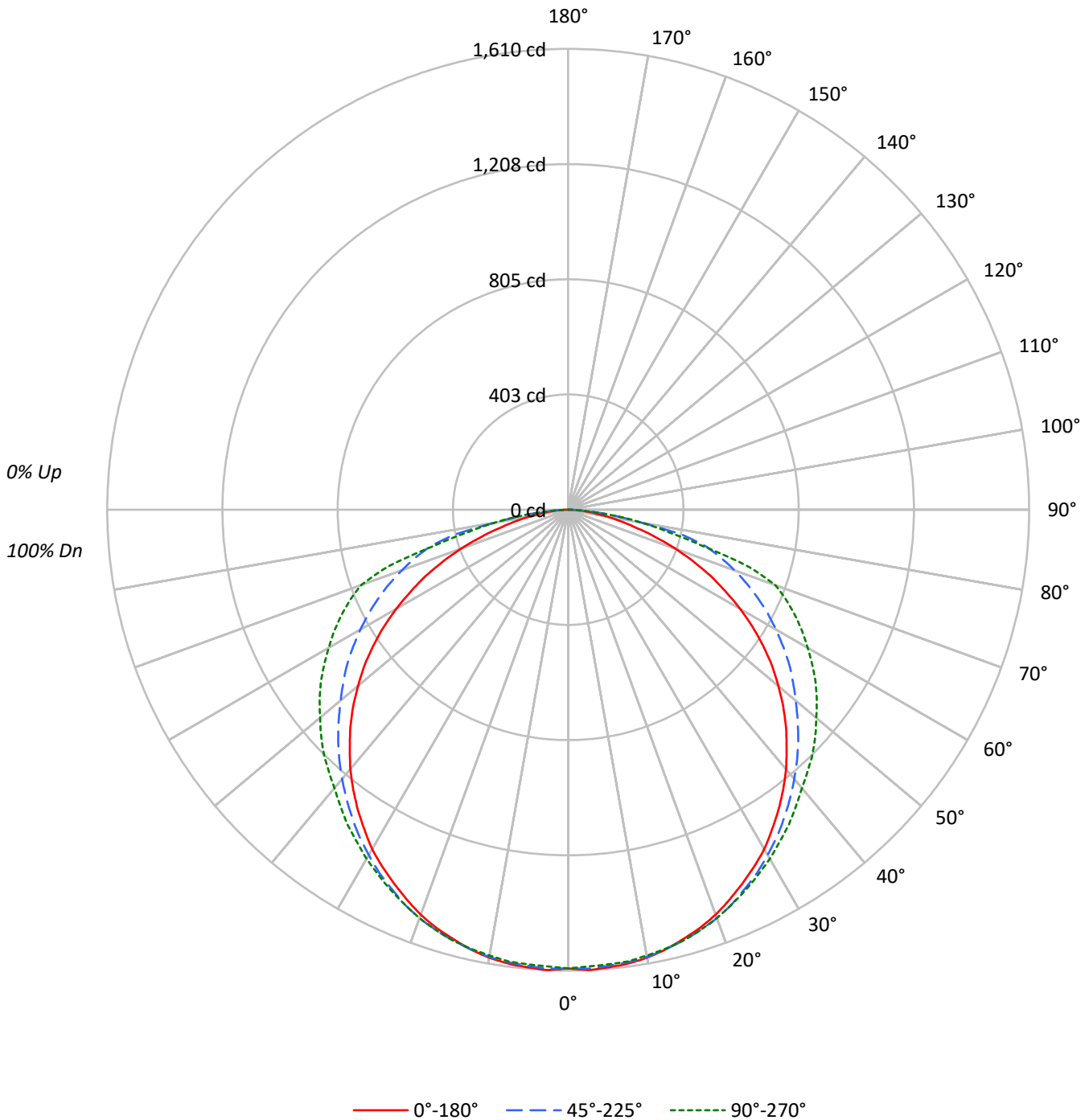
Input Watts (W): 59.52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2156	2156	2156
5°	2168	2161	2154
10°	2171	2168	2161
15°	2163	2170	2170
20°	2156	2174	2174
25°	2138	2169	2177
30°	2128	2164	2189
35°	2103	2159	2206
40°	2079	2157	2230
45°	2048	2162	2297
50°	2006	2170	2368
55°	1953	2211	2475
60°	1867	2255	2600
65°	1750	2326	2784
70°	1566	2431	3028
75°	1293	2600	2505
80°	1055	2008	2029
85°	849	1334	1254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.2	3.0
10°-20°	439.1	8.7
20°-30°	671.2	13.2
30°-40°	820.9	16.2
40°-50°	878.3	17.3
50°-60°	841.1	16.6
60°-70°	711.5	14.0
70°-80°	451.0	8.9
80°-90°	103.8	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°	1262.5	24.9
0°-40°	2083.4	41.1
0°-60°	3802.8	75.0
0°-90°	5069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1605	1597	1600	1597	1595	153
15°	1553	1550	1558	1558	1558	439
25°	1440	1440	1461	1466	1466	664
35°	1280	1288	1314	1333	1343	801
45°	1076	1094	1136	1184	1207	829
55°	833	859	943	1021	1055	743
65°	550	602	730	830	874	542
75°	249	351	500	498	482	270
85°	55	84	86	78	81	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1602.4	1602.4	1602.4	1602.4	1602.4
2.5°	1610.3	1602.4	1605.0	1602.4	1597.2
5°	1605.0	1597.2	1599.8	1597.2	1594.6
7.5°	1599.8	1591.9	1594.6	1591.9	1591.9
10°	1589.3	1581.5	1586.7	1584.1	1581.5
12.5°	1573.6	1568.4	1573.6	1571.0	1571.0
15°	1552.7	1550.0	1557.9	1557.9	1557.9
17.5°	1531.7	1529.1	1539.6	1539.6	1539.6
20°	1505.5	1502.9	1518.6	1518.6	1518.6
22.5°	1474.1	1471.5	1492.4	1492.4	1492.4
25°	1440.1	1440.1	1461.0	1466.3	1466.3
27.5°	1406.0	1406.0	1429.6	1437.5	1437.5
30°	1369.4	1369.4	1392.9	1403.4	1408.7
32.5°	1324.9	1330.1	1356.3	1369.4	1374.6
35°	1280.4	1288.2	1314.4	1332.7	1343.2
37.5°	1233.2	1241.1	1272.5	1293.4	1306.5
40°	1183.5	1193.9	1228.0	1254.2	1269.9
42.5°	1128.5	1144.2	1183.5	1217.5	1238.5
45°	1076.1	1094.5	1136.3	1183.5	1207.0
47.5°	1018.5	1039.5	1086.6	1146.8	1170.4
50°	958.3	979.2	1036.9	1104.9	1131.1
52.5°	898.1	921.6	989.7	1063.0	1094.5
55°	832.6	858.8	942.6	1021.1	1055.2
57.5°	764.5	796.0	890.2	974.0	1010.7
60°	693.9	733.1	837.9	926.9	966.2
62.5°	620.5	667.7	785.5	879.8	921.6
65°	549.8	602.2	730.5	830.0	874.5
67.5°	473.9	539.4	675.5	782.9	824.8
70°	398.0	473.9	617.9	727.9	769.8
72.5°	322.1	413.7	560.3	659.8	659.8
75°	248.7	350.9	500.1	497.5	481.8
77.5°	188.5	293.3	411.1	350.9	353.5
80°	136.2	235.6	259.2	259.2	261.8
82.5°	91.6	180.7	167.6	165.0	170.2
85°	55.0	83.8	86.4	78.5	81.2
87.5°	26.2	28.8	23.6	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)