

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: P293474

Luminaire Tested: **24GR-LD5-34-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-34-A-UNV-L82765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3682.0 lumens  
Efficiency: N/A  
Efficacy: 155.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

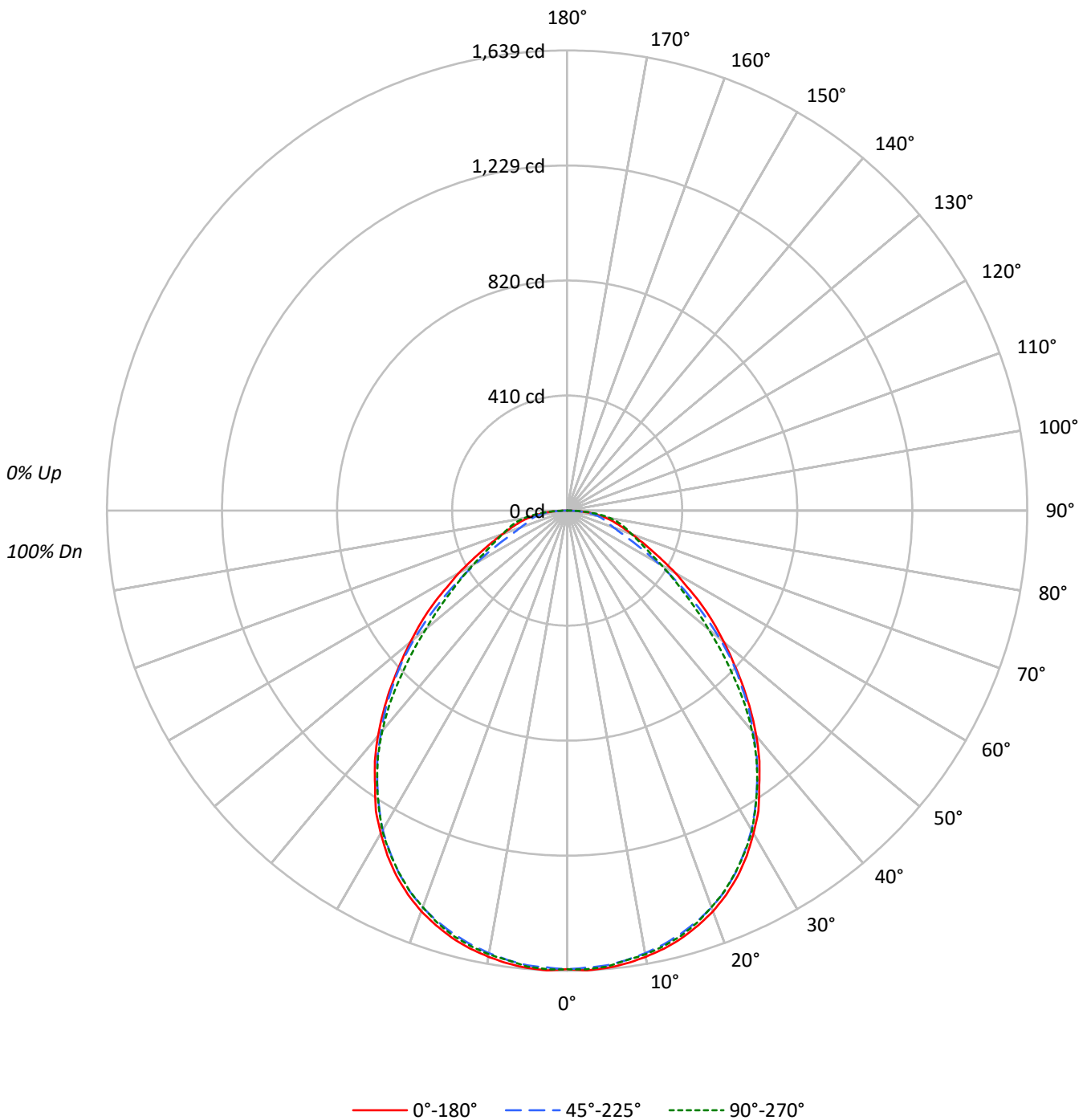
Input Watts (W): 23.622  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2198	2198	2198
5°	2209	2197	2202
10°	2205	2187	2193
15°	2196	2174	2184
20°	2175	2153	2153
25°	2133	2110	2109
30°	2063	2041	2046
35°	1959	1937	1940
40°	1842	1810	1799
45°	1689	1666	1600
50°	1526	1485	1373
55°	1370	1247	1183
60°	1200	1004	1041
65°	1047	790	958
70°	958	689	958
75°	958	734	1056
80°	1040	864	1203
85°	1141	974	1291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.7	4.2
10°-20°	441.5	12.0
20°-30°	654.6	17.8
30°-40°	738.5	20.1
40°-50°	668.9	18.2
50°-60°	482.6	13.1
60°-70°	288.1	7.8
70°-80°	178.1	4.8
80°-90°	75.0	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°	1250.8	34.0
0°-40°	1989.3	54.0
0°-60°	3140.8	85.3
0°-90°	3682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3682.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1635	1633	1626	1625	1630	155
15°	1577	1567	1561	1561	1568	444
25°	1437	1429	1422	1416	1420	660
35°	1193	1191	1179	1180	1181	746
45°	887	882	875	854	841	684
55°	584	566	532	506	504	522
65°	329	290	248	282	301	331
75°	184	160	141	176	203	197
85°	74	65	63	82	84	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1633.7	1633.7	1633.7	1633.7	1633.7
2.5°	1639.3	1634.8	1629.1	1632.5	1635.4
5°	1635.4	1633.1	1626.3	1624.6	1630.2
7.5°	1626.8	1621.1	1614.9	1617.7	1615.5
10°	1613.8	1608.6	1600.7	1601.2	1605.2
12.5°	1597.8	1591.6	1583.0	1585.3	1588.7
15°	1576.8	1567.1	1560.9	1561.4	1567.7
17.5°	1550.0	1542.6	1534.7	1536.4	1539.2
20°	1519.3	1515.3	1504.0	1500.6	1503.4
22.5°	1480.6	1473.3	1467.0	1465.3	1465.9
25°	1436.8	1428.9	1421.5	1416.4	1420.4
27.5°	1385.7	1378.8	1369.2	1367.5	1370.9
30°	1327.6	1322.5	1314.0	1311.7	1316.8
32.5°	1268.5	1259.9	1248.0	1248.0	1249.1
35°	1192.8	1191.1	1179.2	1179.7	1180.9
37.5°	1124.6	1116.6	1109.8	1102.9	1106.4
40°	1048.9	1039.8	1030.7	1026.2	1024.5
42.5°	967.6	960.7	956.8	940.3	936.3
45°	887.4	881.7	875.4	853.8	840.7
47.5°	805.5	804.3	799.2	761.1	748.0
50°	729.2	727.5	709.3	668.9	655.9
52.5°	657.0	645.6	621.7	581.9	579.6
55°	584.2	566.0	531.8	505.7	504.5
57.5°	507.4	485.8	451.1	436.9	444.3
60°	446.0	413.0	373.1	374.9	386.8
62.5°	382.2	345.3	306.0	323.1	337.3
65°	328.8	289.5	248.0	281.6	300.9
67.5°	282.1	245.7	205.9	250.9	269.6
70°	243.5	213.9	175.2	222.4	243.5
72.5°	212.7	185.4	155.3	199.7	224.1
75°	184.3	159.8	141.1	175.8	203.1
77.5°	159.8	135.9	127.4	155.3	182.0
80°	134.2	112.6	111.5	135.4	155.3
82.5°	104.7	89.9	89.9	113.2	125.1
85°	73.9	64.8	63.1	82.5	83.6
87.5°	38.1	36.4	33.0	43.2	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)