

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: P293493

Luminaire Tested: **24GR-LD5-42-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293493  
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-LD5-42-A-UNV-L82765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4433.0 lumens  
Efficiency: N/A  
Efficacy: 151.8 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

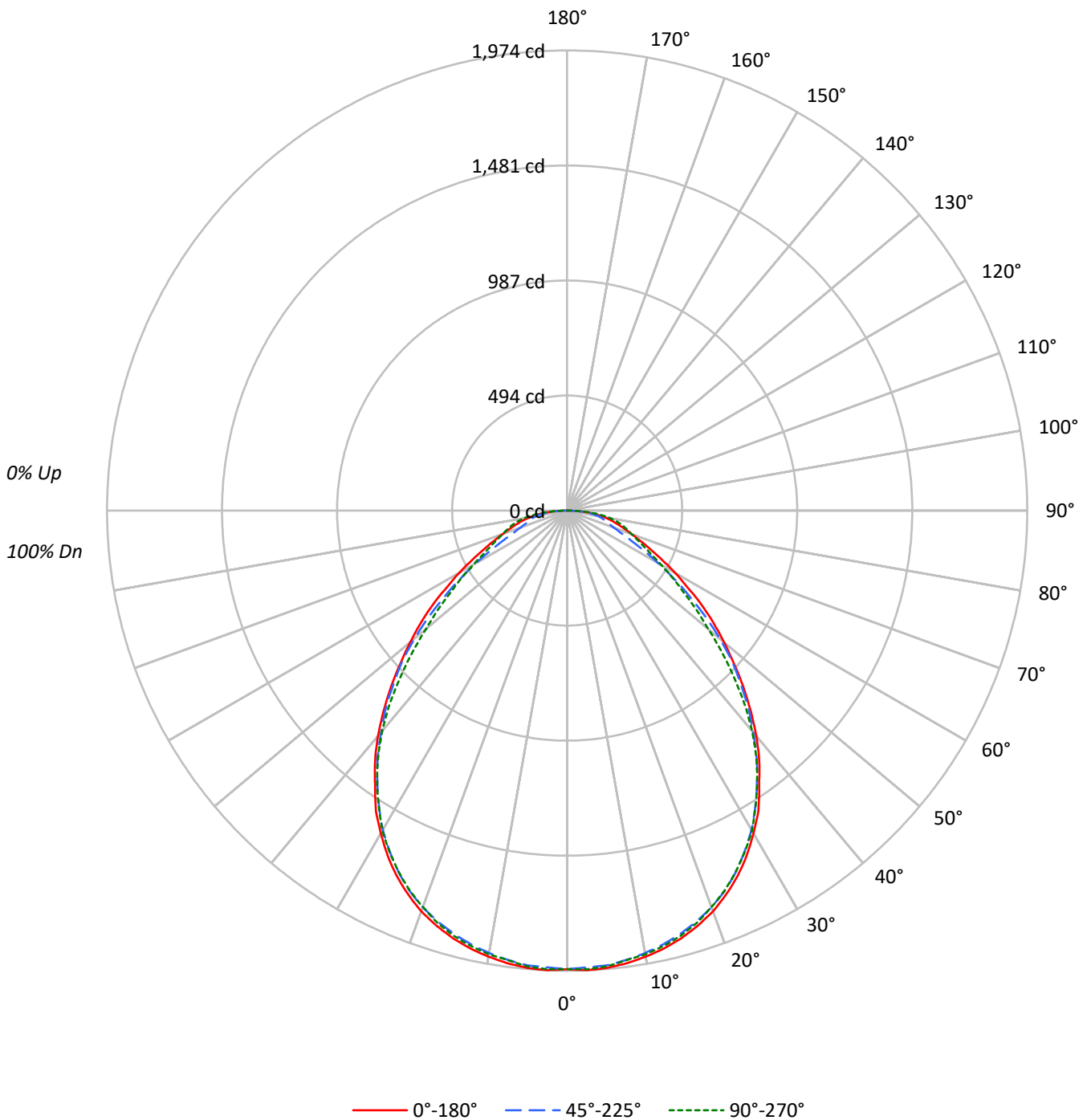
Input Watts (W): 29.202  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2646	2646	2646
5°	2659	2645	2651
10°	2654	2633	2640
15°	2644	2618	2629
20°	2619	2593	2592
25°	2568	2541	2539
30°	2483	2458	2463
35°	2359	2332	2335
40°	2218	2180	2166
45°	2033	2006	1926
50°	1838	1788	1653
55°	1650	1502	1425
60°	1445	1209	1253
65°	1260	951	1153
70°	1153	830	1153
75°	1154	883	1271
80°	1252	1040	1449
85°	1374	1173	1555



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.3	4.2
10°-20°	531.5	12.0
20°-30°	788.2	17.8
30°-40°	889.1	20.1
40°-50°	805.3	18.2
50°-60°	581.0	13.1
60°-70°	346.9	7.8
70°-80°	214.4	4.8
80°-90°	90.3	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°	1506.0	34.0
0°-40°	2395.1	54.0
0°-60°	3781.4	85.3
0°-90°	4433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4433.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1967	1967	1967	1967	1967	
5°	1969	1966	1958	1956	1963	187
15°	1898	1887	1879	1880	1887	535
25°	1730	1720	1711	1705	1710	795
35°	1436	1434	1420	1420	1422	899
45°	1068	1062	1054	1028	1012	823
55°	703	681	640	609	608	628
65°	396	349	299	339	362	398
75°	222	192	170	212	244	237
85°	89	78	76	99	101	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1966.9	1966.9	1966.9	1966.9	1966.9
2.5°	1973.7	1968.2	1961.4	1965.5	1968.9
5°	1968.9	1966.2	1958.0	1955.9	1962.8
7.5°	1958.7	1951.8	1944.3	1947.7	1945.0
10°	1942.9	1936.7	1927.1	1927.8	1932.6
12.5°	1923.7	1916.2	1905.9	1908.7	1912.8
15°	1898.4	1886.7	1879.2	1879.9	1887.4
17.5°	1866.2	1857.3	1847.7	1849.8	1853.2
20°	1829.2	1824.4	1810.7	1806.6	1810.0
22.5°	1782.6	1773.7	1766.2	1764.2	1764.8
25°	1729.9	1720.3	1711.4	1705.3	1710.1
27.5°	1668.3	1660.1	1648.4	1646.4	1650.5
30°	1598.4	1592.3	1582.0	1579.2	1585.4
32.5°	1527.2	1516.9	1502.5	1502.5	1503.9
35°	1436.1	1434.1	1419.7	1420.4	1421.7
37.5°	1353.9	1344.3	1336.1	1327.9	1332.0
40°	1262.9	1251.9	1240.9	1235.5	1233.4
42.5°	1164.9	1156.7	1151.9	1132.0	1127.3
45°	1068.4	1061.5	1054.0	1028.0	1012.2
47.5°	969.7	968.4	962.2	916.3	900.6
50°	878.0	875.9	854.0	805.4	789.6
52.5°	791.0	777.3	748.5	700.6	697.9
55°	703.3	681.4	640.3	608.8	607.5
57.5°	610.9	584.9	543.1	526.0	534.9
60°	536.9	497.2	449.3	451.3	465.7
62.5°	460.2	415.7	368.4	389.0	406.1
65°	395.8	348.6	298.6	339.0	362.3
67.5°	339.7	295.9	247.9	302.0	324.6
70°	293.1	257.5	210.9	267.8	293.1
72.5°	256.1	223.3	187.0	240.4	269.8
75°	221.9	192.4	169.8	211.6	244.5
77.5°	192.4	163.7	153.4	187.0	219.1
80°	161.6	135.6	134.2	163.0	187.0
82.5°	126.0	108.2	108.2	136.3	150.7
85°	89.0	78.1	76.0	99.3	100.7
87.5°	45.9	43.8	39.7	52.0	52.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)