

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: P293634

Luminaire Tested: **24GR-LD5-56-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293634  
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-LD5-56-A-UNV-L92765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5270.0 lumens  
Efficiency: N/A  
Efficacy: 132.1 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

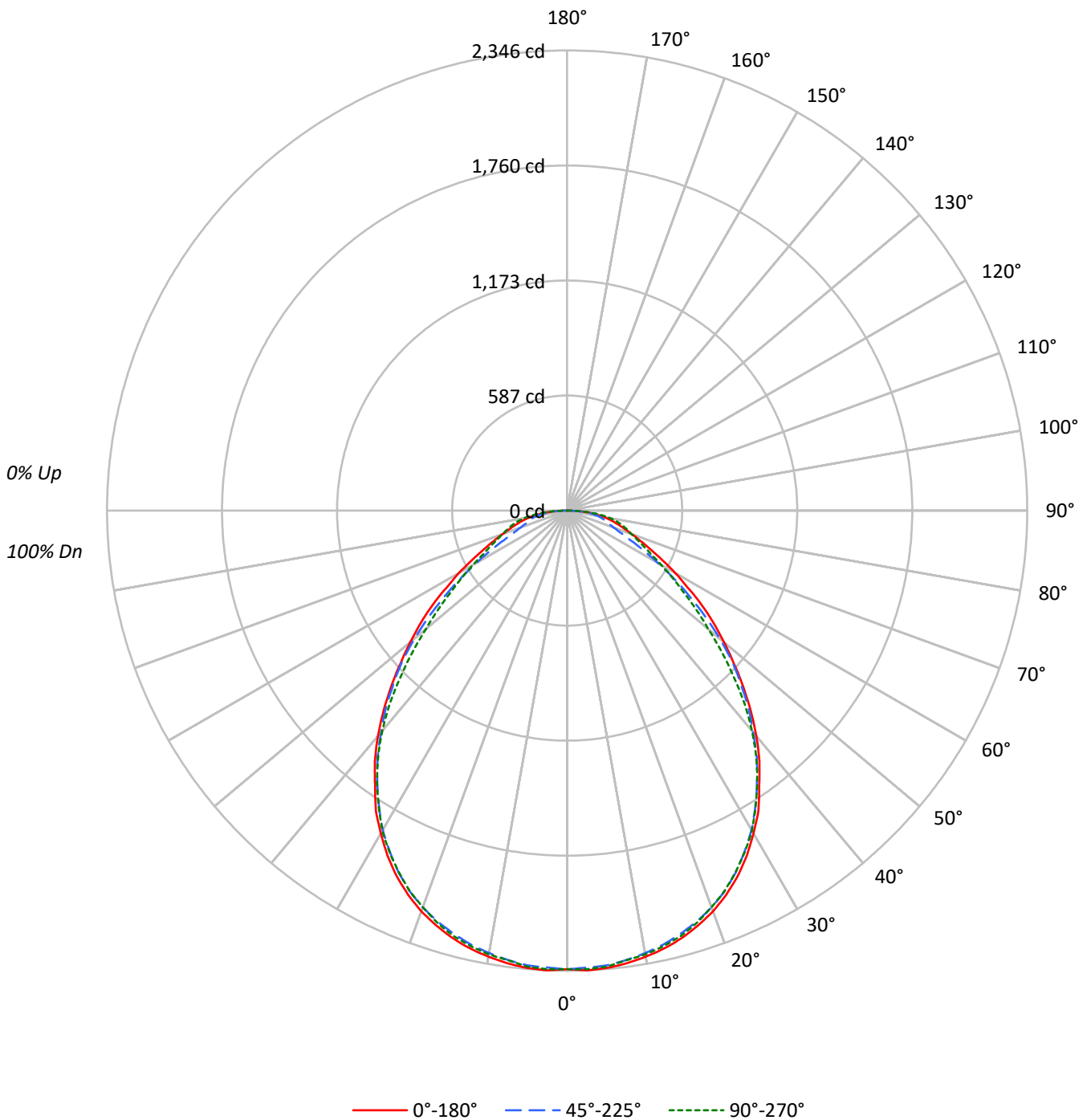
Input Watts (W): 39.897  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3146	3146	3146
5°	3161	3144	3152
10°	3156	3130	3139
15°	3144	3112	3126
20°	3114	3082	3081
25°	3053	3021	3018
30°	2952	2922	2928
35°	2804	2772	2776
40°	2637	2591	2575
45°	2417	2384	2290
50°	2185	2125	1965
55°	1961	1786	1694
60°	1718	1437	1490
65°	1498	1130	1371
70°	1371	987	1371
75°	1371	1050	1511
80°	1488	1237	1722
85°	1633	1396	1848



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.4	4.2
10°-20°	631.9	12.0
20°-30°	937.0	17.8
30°-40°	1057.0	20.1
40°-50°	957.3	18.2
50°-60°	690.7	13.1
60°-70°	412.4	7.8
70°-80°	254.9	4.8
80°-90°	107.4	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°	1790.3	34.0
0°-40°	2847.3	54.0
0°-60°	4495.3	85.3
0°-90°	5270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2338	2338	2338	2338	2338	
5°	2341	2337	2328	2325	2333	222
15°	2257	2243	2234	2235	2244	636
25°	2056	2045	2035	2027	2033	945
35°	1707	1705	1688	1688	1690	1068
45°	1270	1262	1253	1222	1203	979
55°	836	810	761	724	722	746
65°	471	414	355	403	431	473
75°	264	229	202	252	291	282
85°	106	93	90	118	120	111
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2338.2	2338.2	2338.2	2338.2	2338.2
2.5°	2346.4	2339.9	2331.7	2336.6	2340.7
5°	2340.7	2337.4	2327.7	2325.2	2333.4
7.5°	2328.5	2320.3	2311.4	2315.4	2312.2
10°	2309.7	2302.4	2291.0	2291.8	2297.5
12.5°	2286.9	2278.0	2265.8	2269.0	2273.9
15°	2256.8	2243.0	2234.0	2234.8	2243.8
17.5°	2218.6	2208.0	2196.6	2199.0	2203.1
20°	2174.6	2168.9	2152.6	2147.7	2151.8
22.5°	2119.2	2108.6	2099.7	2097.2	2098.1
25°	2056.5	2045.1	2034.6	2027.2	2032.9
27.5°	1983.3	1973.5	1959.7	1957.2	1962.1
30°	1900.2	1892.9	1880.7	1877.4	1884.8
32.5°	1815.6	1803.3	1786.2	1786.2	1787.9
35°	1707.3	1704.8	1687.7	1688.5	1690.2
37.5°	1609.6	1598.2	1588.4	1578.6	1583.5
40°	1501.3	1488.3	1475.2	1468.7	1466.3
42.5°	1384.9	1375.1	1369.4	1345.8	1340.1
45°	1270.1	1261.9	1253.0	1222.0	1203.3
47.5°	1152.8	1151.2	1143.9	1089.3	1070.6
50°	1043.7	1041.3	1015.2	957.4	938.7
52.5°	940.3	924.1	889.9	832.9	829.6
55°	836.1	810.1	761.2	723.8	722.2
57.5°	726.2	695.3	645.6	625.3	635.9
60°	638.3	591.1	534.1	536.5	553.6
62.5°	547.1	494.2	438.0	462.4	482.8
65°	470.6	414.4	355.0	403.0	430.7
67.5°	403.8	351.7	294.7	359.0	385.9
70°	348.5	306.1	250.8	318.3	348.5
72.5°	304.5	265.4	222.3	285.8	320.8
75°	263.8	228.8	201.9	251.6	290.7
77.5°	228.8	194.6	182.4	222.3	260.5
80°	192.1	161.2	159.6	193.8	222.3
82.5°	149.8	128.6	128.6	162.0	179.1
85°	105.8	92.8	90.4	118.1	119.7
87.5°	54.5	52.1	47.2	61.9	61.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)