

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: P293314

Luminaire Tested: **24GR-LD5-56-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293314  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-56-F125-UNV-L93050-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5173.0 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

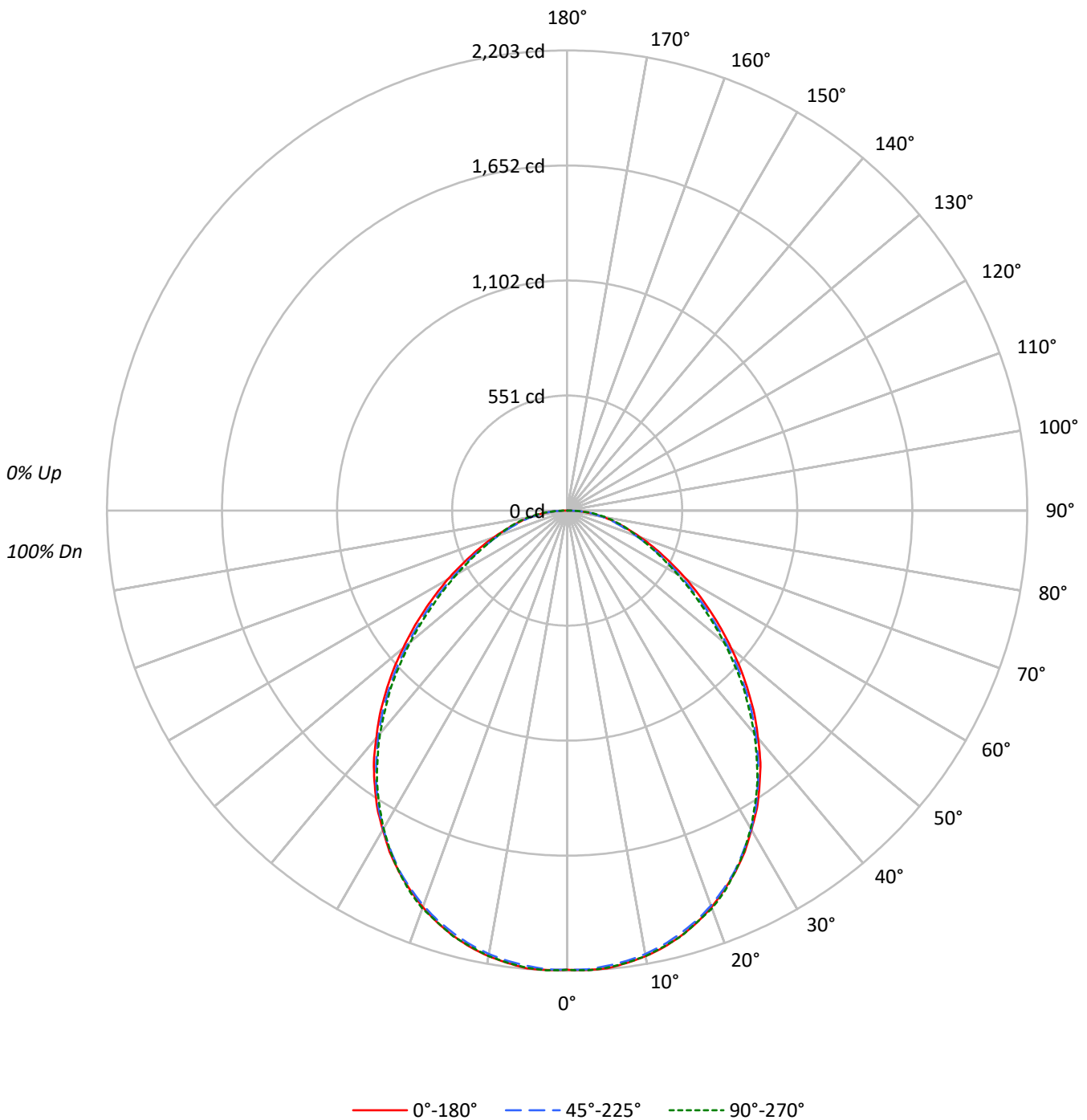
Input Watts (W): 39.980142  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

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

	0°	45°	90°
0°	2958	2958	2958
5°	2972	2955	2967
10°	2960	2945	2958
15°	2936	2920	2939
20°	2893	2882	2902
25°	2831	2823	2829
30°	2741	2736	2730
35°	2638	2618	2607
40°	2497	2468	2448
45°	2336	2293	2265
50°	2146	2089	2053
55°	1958	1885	1830
60°	1778	1682	1639
65°	1601	1511	1485
70°	1467	1371	1409
75°	1370	1307	1404
80°	1360	1334	1466
85°	1386	1399	1598



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.1	4.0
10°-20°	591.5	11.4
20°-30°	873.9	16.9
30°-40°	993.5	19.2
40°-50°	927.8	17.9
50°-60°	721.5	13.9
60°-70°	478.8	9.3
70°-80°	277.1	5.4
80°-90°	100.7	1.9
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°	1673.5	32.4
0°-40°	2667.0	51.6
0°-60°	4316.4	83.4
0°-90°	5173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5173.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2200	2189	2188	2192	2197	209
15°	2108	2098	2097	2096	2110	594
25°	1907	1898	1902	1898	1906	877
35°	1606	1598	1594	1582	1587	1003
45°	1227	1218	1205	1189	1190	946
55°	834	822	804	783	780	748
65°	503	488	475	466	466	503
75°	264	257	252	263	270	282
85°	90	88	91	103	104	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2198.5	2198.5	2198.5	2198.5	2198.5
2.5°	2201.8	2195.3	2198.5	2196.1	2203.4
5°	2200.1	2188.8	2188.0	2192.1	2196.9
7.5°	2184.8	2172.6	2175.1	2175.1	2183.2
10°	2166.2	2154.1	2155.7	2156.5	2165.4
12.5°	2141.1	2129.0	2129.8	2129.0	2137.9
15°	2108.0	2097.5	2096.6	2095.8	2109.6
17.5°	2067.5	2053.0	2057.8	2058.6	2065.9
20°	2020.6	2009.3	2012.6	2011.7	2027.1
22.5°	1964.8	1956.8	1959.2	1957.6	1972.1
25°	1906.6	1898.5	1901.8	1897.7	1905.8
27.5°	1841.1	1835.5	1832.2	1829.8	1835.5
30°	1764.3	1761.1	1761.1	1750.6	1757.0
32.5°	1691.5	1681.0	1681.0	1677.0	1672.9
35°	1605.8	1597.8	1593.7	1582.4	1587.2
37.5°	1520.1	1501.5	1499.9	1491.0	1491.0
40°	1421.5	1411.0	1405.3	1395.6	1394.0
42.5°	1327.7	1317.2	1307.5	1291.3	1288.1
45°	1227.4	1217.7	1204.8	1189.4	1190.2
47.5°	1128.0	1114.2	1102.1	1083.5	1081.1
50°	1025.3	1015.6	997.8	981.6	980.8
52.5°	929.1	913.7	897.5	878.1	878.1
55°	834.5	822.3	803.7	782.7	780.3
57.5°	743.9	732.6	711.5	696.2	692.1
60°	660.6	644.4	625.0	612.1	608.9
62.5°	577.3	562.8	548.2	535.3	534.5
65°	502.9	487.6	474.6	465.7	466.5
67.5°	435.8	422.9	408.3	405.9	406.7
70°	372.8	359.0	348.5	354.2	358.2
72.5°	312.9	305.6	298.4	306.5	312.1
75°	263.6	257.1	251.5	262.8	270.1
77.5°	218.3	213.5	212.7	222.4	228.8
80°	175.5	169.8	172.2	183.5	189.2
82.5°	133.4	129.4	130.2	143.9	148.0
85°	89.8	88.1	90.6	102.7	103.5
87.5°	47.7	47.7	49.3	56.6	54.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)