

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: P293383

Luminaire Tested: **24GR-LD5-56-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293383  
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-L92765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5289.0 lumens  
Efficiency: N/A  
Efficacy: 132.0 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

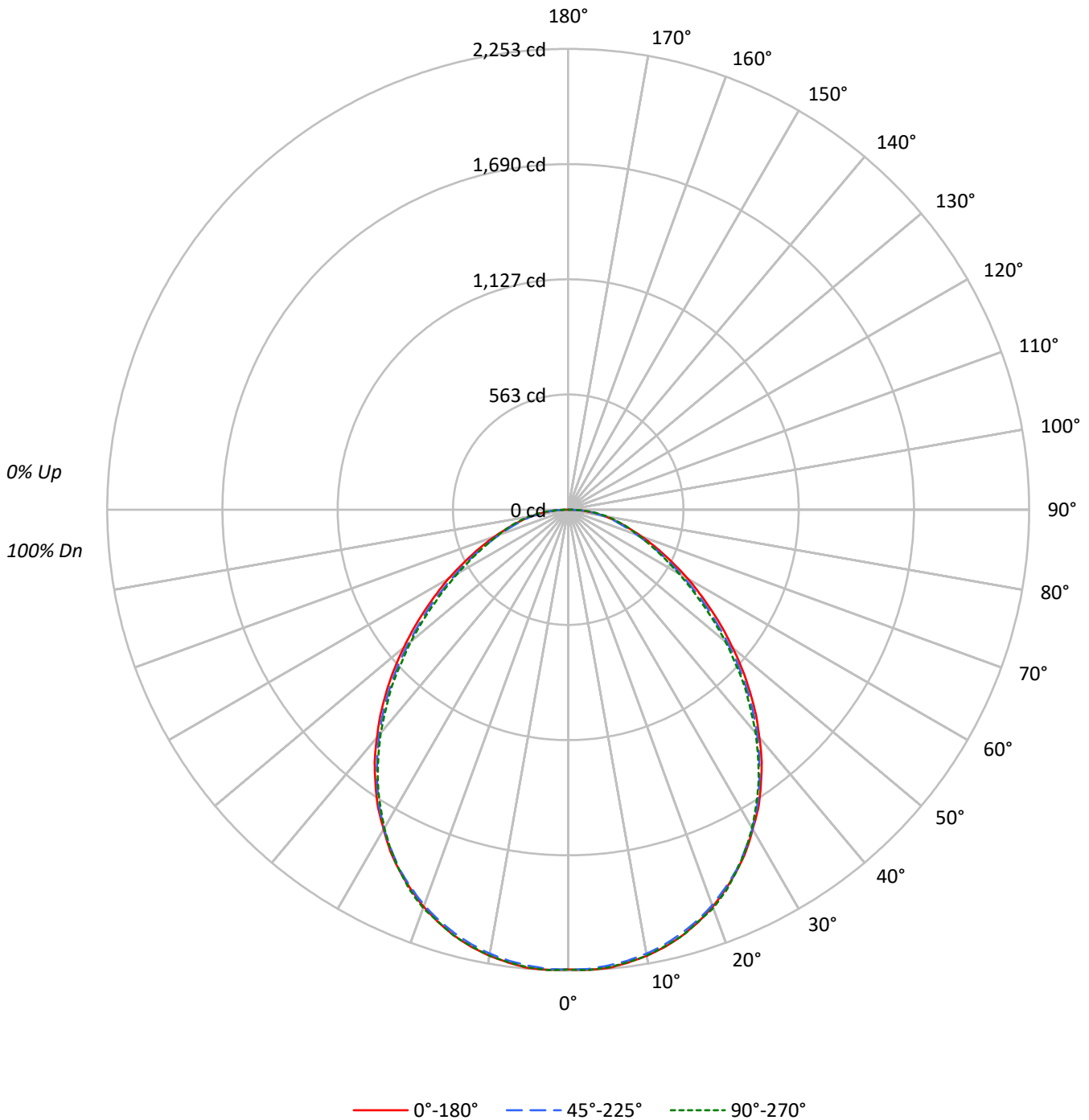
Input Watts (W): 40.083  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	3024	3024	3024
5°	3038	3021	3034
10°	3026	3011	3025
15°	3002	2986	3004
20°	2958	2946	2968
25°	2894	2887	2893
30°	2803	2797	2791
35°	2697	2676	2666
40°	2553	2524	2503
45°	2388	2344	2316
50°	2194	2135	2099
55°	2001	1928	1871
60°	1817	1720	1675
65°	1637	1545	1519
70°	1499	1402	1441
75°	1401	1337	1435
80°	1390	1364	1499
85°	1417	1430	1633



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.7	4.0
10°-20°	604.8	11.4
20°-30°	893.5	16.9
30°-40°	1015.8	19.2
40°-50°	948.6	17.9
50°-60°	737.7	13.9
60°-70°	489.5	9.3
70°-80°	283.3	5.4
80°-90°	103.0	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°	1711.0	32.4
0°-40°	2726.9	51.6
0°-60°	4413.2	83.4
0°-90°	5289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5289.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2250	2238	2237	2241	2246	213
15°	2155	2144	2144	2143	2157	607
25°	1949	1941	1944	1940	1949	896
35°	1642	1634	1629	1618	1623	1025
45°	1255	1245	1232	1216	1217	967
55°	853	841	822	800	798	765
65°	514	498	485	476	477	514
75°	270	263	257	269	276	288
85°	92	90	93	105	106	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2247.8	2247.8	2247.8	2247.8	2247.8
2.5°	2251.1	2244.5	2247.8	2245.3	2252.8
5°	2249.5	2237.9	2237.1	2241.2	2246.2
7.5°	2233.8	2221.4	2223.8	2223.8	2232.1
10°	2214.8	2202.4	2204.0	2204.8	2213.9
12.5°	2189.1	2176.7	2177.6	2176.7	2185.8
15°	2155.2	2144.5	2143.7	2142.8	2156.9
17.5°	2113.9	2099.0	2104.0	2104.8	2112.2
20°	2065.9	2054.4	2057.7	2056.9	2072.6
22.5°	2008.9	2000.6	2003.1	2001.5	2016.3
25°	1949.4	1941.1	1944.4	1940.3	1948.6
27.5°	1882.4	1876.6	1873.3	1870.8	1876.6
30°	1803.9	1800.6	1800.6	1789.8	1796.4
32.5°	1729.5	1718.7	1718.7	1714.6	1710.5
35°	1641.8	1633.6	1629.4	1617.9	1622.8
37.5°	1554.2	1535.2	1533.5	1524.5	1524.5
40°	1453.4	1442.6	1436.8	1426.9	1425.2
42.5°	1357.5	1346.7	1336.8	1320.3	1316.9
45°	1254.9	1245.0	1231.8	1216.1	1216.9
47.5°	1153.3	1139.2	1126.8	1107.8	1105.3
50°	1048.3	1038.3	1020.2	1003.6	1002.8
52.5°	949.9	934.2	917.6	897.8	897.8
55°	853.2	840.8	821.7	800.3	797.8
57.5°	760.6	749.0	727.5	711.8	707.7
60°	675.4	658.9	639.0	625.8	622.5
62.5°	590.3	575.4	560.5	547.3	546.5
65°	514.2	498.5	485.3	476.2	477.0
67.5°	445.6	432.4	417.5	415.0	415.8
70°	381.1	367.1	356.3	362.1	366.2
72.5°	319.9	312.5	305.1	313.3	319.1
75°	269.5	262.9	257.1	268.7	276.1
77.5°	223.2	218.3	217.4	227.3	234.0
80°	179.4	173.6	176.1	187.7	193.5
82.5°	136.4	132.3	133.1	147.2	151.3
85°	91.8	90.1	92.6	105.0	105.8
87.5°	48.8	48.8	50.4	57.9	55.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)