

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: P293252

Luminaire Tested: **24GR-LD5-56-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293252  
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-L82765-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5320.0 lumens  
Efficiency: N/A  
Efficacy: 137.5 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

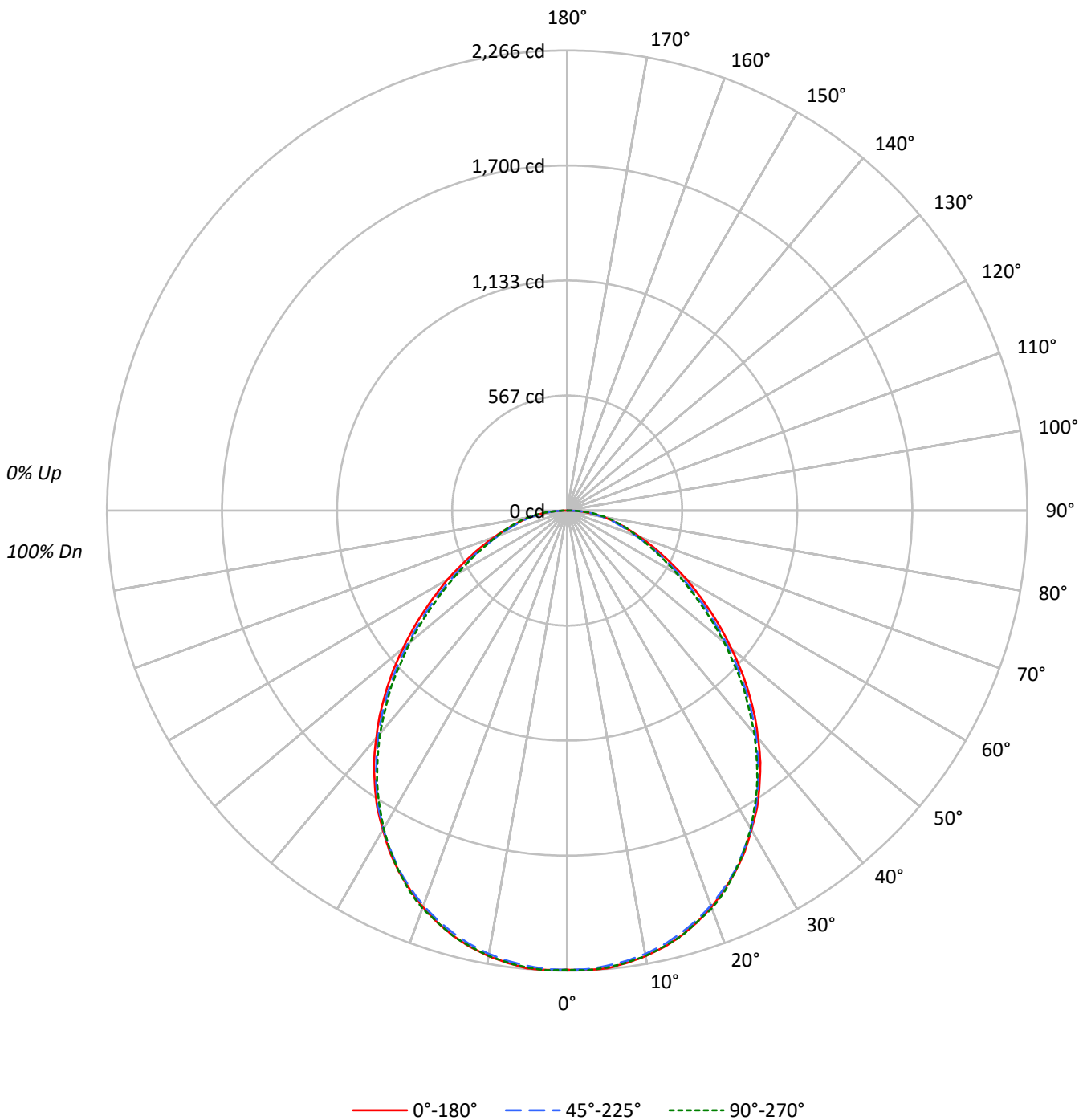
Input Watts (W): 38.688  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293252

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L82765-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P293252

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L82765-W2A1-U-3000K

**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	73	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°	3042	3042	3042
5°	3056	3039	3051
10°	3044	3029	3042
15°	3020	3003	3022
20°	2976	2963	2985
25°	2911	2904	2910
30°	2819	2814	2807
35°	2713	2692	2681
40°	2568	2538	2518
45°	2402	2358	2329
50°	2207	2148	2111
55°	2013	1939	1882
60°	1828	1730	1685
65°	1647	1554	1528
70°	1508	1410	1449
75°	1409	1344	1444
80°	1398	1372	1508
85°	1425	1437	1643



TEST NUMBER: P293252

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L82765-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.0	4.0
10°-20°	608.4	11.4
20°-30°	898.7	16.9
30°-40°	1021.8	19.2
40°-50°	954.2	17.9
50°-60°	742.1	13.9
60°-70°	492.4	9.3
70°-80°	284.9	5.4
80°-90°	103.6	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°	1721.1	32.4
0°-40°	2742.8	51.6
0°-60°	4439.1	83.4
0°-90°	5320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5320.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2261	2261	2261	2261	2261	
5°	2263	2251	2250	2254	2259	215
15°	2168	2157	2156	2155	2170	611
25°	1961	1952	1956	1952	1960	902
35°	1652	1643	1639	1627	1632	1031
45°	1262	1252	1239	1223	1224	973
55°	858	846	827	805	802	770
65°	517	501	488	479	480	517
75°	271	264	259	270	278	290
85°	92	91	93	106	106	100
90°	0	0	0	0	0	



TEST NUMBER: P293252

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L82765-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2261.0	2261.0	2261.0	2261.0	2261.0
2.5°	2264.3	2257.7	2261.0	2258.5	2266.0
5°	2262.7	2251.0	2250.2	2254.3	2259.3
7.5°	2246.9	2234.4	2236.9	2236.9	2245.2
10°	2227.7	2215.3	2216.9	2217.8	2226.9
12.5°	2202.0	2189.5	2190.3	2189.5	2198.6
15°	2167.9	2157.1	2156.2	2155.4	2169.5
17.5°	2126.3	2111.3	2116.3	2117.1	2124.6
20°	2078.1	2066.4	2069.7	2068.9	2084.7
22.5°	2020.7	2012.4	2014.9	2013.2	2028.2
25°	1960.8	1952.5	1955.8	1951.7	1960.0
27.5°	1893.5	1887.6	1884.3	1881.8	1887.6
30°	1814.5	1811.1	1811.1	1800.3	1807.0
32.5°	1739.6	1728.8	1728.8	1724.6	1720.5
35°	1651.5	1643.2	1639.0	1627.4	1632.3
37.5°	1563.3	1544.2	1542.5	1533.4	1533.4
40°	1461.9	1451.1	1445.2	1435.3	1433.6
42.5°	1365.4	1354.6	1344.6	1328.0	1324.7
45°	1262.3	1252.3	1239.0	1223.2	1224.0
47.5°	1160.0	1145.9	1133.4	1114.3	1111.8
50°	1054.4	1044.4	1026.1	1009.5	1008.7
52.5°	955.5	939.7	923.0	903.1	903.1
55°	858.2	845.7	826.6	804.9	802.5
57.5°	765.0	753.4	731.8	716.0	711.8
60°	679.4	662.7	642.8	629.5	626.2
62.5°	593.7	578.8	563.8	550.5	549.7
65°	517.2	501.4	488.1	479.0	479.8
67.5°	448.2	434.9	419.9	417.4	418.3
70°	383.3	369.2	358.4	364.2	368.4
72.5°	321.8	314.3	306.8	315.2	321.0
75°	271.1	264.4	258.6	270.3	277.7
77.5°	224.5	219.5	218.7	228.7	235.3
80°	180.4	174.6	177.1	188.8	194.6
82.5°	137.2	133.0	133.9	148.0	152.2
85°	92.3	90.6	93.1	105.6	106.4
87.5°	49.1	49.1	50.7	58.2	55.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)