

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: P293201

Luminaire Tested: **24GR-LD5-85-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293201  
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-LD5-85-F125-UNV-L83050-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: 7833.0 lumens  
Efficiency: N/A  
Efficacy: 125.7 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

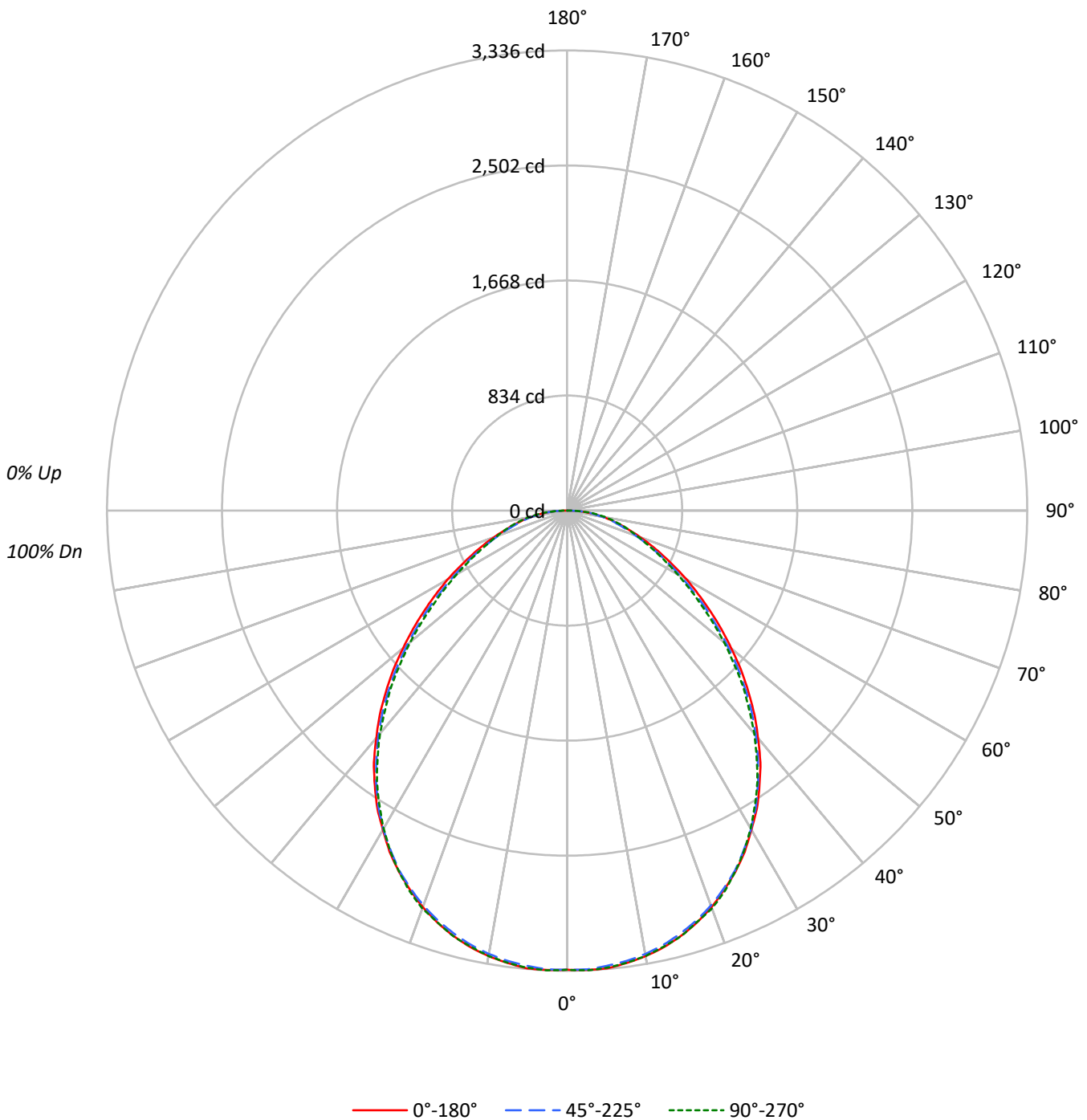
Input Watts (W): 62.31  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	73	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°	4479	4479	4479
5°	4500	4475	4493
10°	4481	4460	4480
15°	4446	4422	4450
20°	4381	4363	4395
25°	4286	4275	4284
30°	4151	4143	4133
35°	3994	3964	3948
40°	3781	3737	3707
45°	3537	3471	3429
50°	3250	3163	3109
55°	2964	2855	2772
60°	2692	2547	2481
65°	2424	2288	2249
70°	2220	2076	2134
75°	2075	1980	2126
80°	2059	2021	2220
85°	2098	2117	2419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.1	4.0
10°-20°	895.7	11.4
20°-30°	1323.3	16.9
30°-40°	1504.4	19.2
40°-50°	1404.9	17.9
50°-60°	1092.6	13.9
60°-70°	724.9	9.3
70°-80°	419.5	5.4
80°-90°	152.5	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°	2534.0	32.4
0°-40°	4038.5	51.6
0°-60°	6536.0	83.4
0°-90°	7833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7833.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3329	3329	3329	3329	3329	
5°	3332	3314	3313	3319	3327	316
15°	3192	3176	3175	3174	3194	899
25°	2887	2875	2880	2874	2886	1327
35°	2432	2419	2413	2396	2403	1518
45°	1859	1844	1824	1801	1802	1432
55°	1264	1245	1217	1185	1182	1133
65°	762	738	719	705	706	761
75°	399	389	381	398	409	427
85°	136	134	137	156	157	148
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3329.0	3329.0	3329.0	3329.0	3329.0
2.5°	3333.9	3324.1	3329.0	3325.4	3336.4
5°	3331.5	3314.3	3313.1	3319.2	3326.6
7.5°	3308.2	3289.8	3293.5	3293.5	3305.8
10°	3280.0	3261.7	3264.1	3265.4	3278.8
12.5°	3242.1	3223.7	3225.0	3223.7	3237.2
15°	3191.9	3176.0	3174.8	3173.5	3194.3
17.5°	3130.7	3108.6	3116.0	3117.2	3128.2
20°	3059.7	3042.5	3047.4	3046.2	3069.5
22.5°	2975.2	2962.9	2966.6	2964.2	2986.2
25°	2887.0	2874.8	2879.7	2873.6	2885.8
27.5°	2787.9	2779.3	2774.4	2770.7	2779.3
30°	2671.5	2666.6	2666.6	2650.7	2660.5
32.5°	2561.4	2545.4	2545.4	2539.3	2533.2
35°	2431.6	2419.3	2413.2	2396.1	2403.4
37.5°	2301.8	2273.6	2271.2	2257.7	2257.7
40°	2152.4	2136.5	2127.9	2113.2	2110.8
42.5°	2010.4	1994.5	1979.8	1955.3	1950.4
45°	1858.6	1843.9	1824.3	1801.0	1802.3
47.5°	1708.0	1687.2	1668.8	1640.6	1637.0
50°	1552.5	1537.8	1510.9	1486.4	1485.1
52.5°	1406.8	1383.5	1359.0	1329.7	1329.7
55°	1263.5	1245.2	1217.0	1185.2	1181.5
57.5°	1126.4	1109.3	1077.4	1054.2	1048.0
60°	1000.3	975.8	946.4	926.8	921.9
62.5°	874.2	852.2	830.1	810.5	809.3
65°	761.5	738.3	718.7	705.2	706.5
67.5°	659.9	640.3	618.3	614.6	615.9
70°	564.4	543.6	527.7	536.3	542.4
72.5°	473.8	462.8	451.8	464.0	472.6
75°	399.1	389.3	380.8	397.9	408.9
77.5°	330.6	323.2	322.0	336.7	346.5
80°	265.7	257.1	260.8	277.9	286.5
82.5°	202.0	195.9	197.1	217.9	224.1
85°	135.9	133.5	137.1	155.5	156.7
87.5°	72.2	72.2	74.7	85.7	82.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)