

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: P293409

Luminaire Tested: **24GR-LD5-85-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293409  
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-L92765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7662.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 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

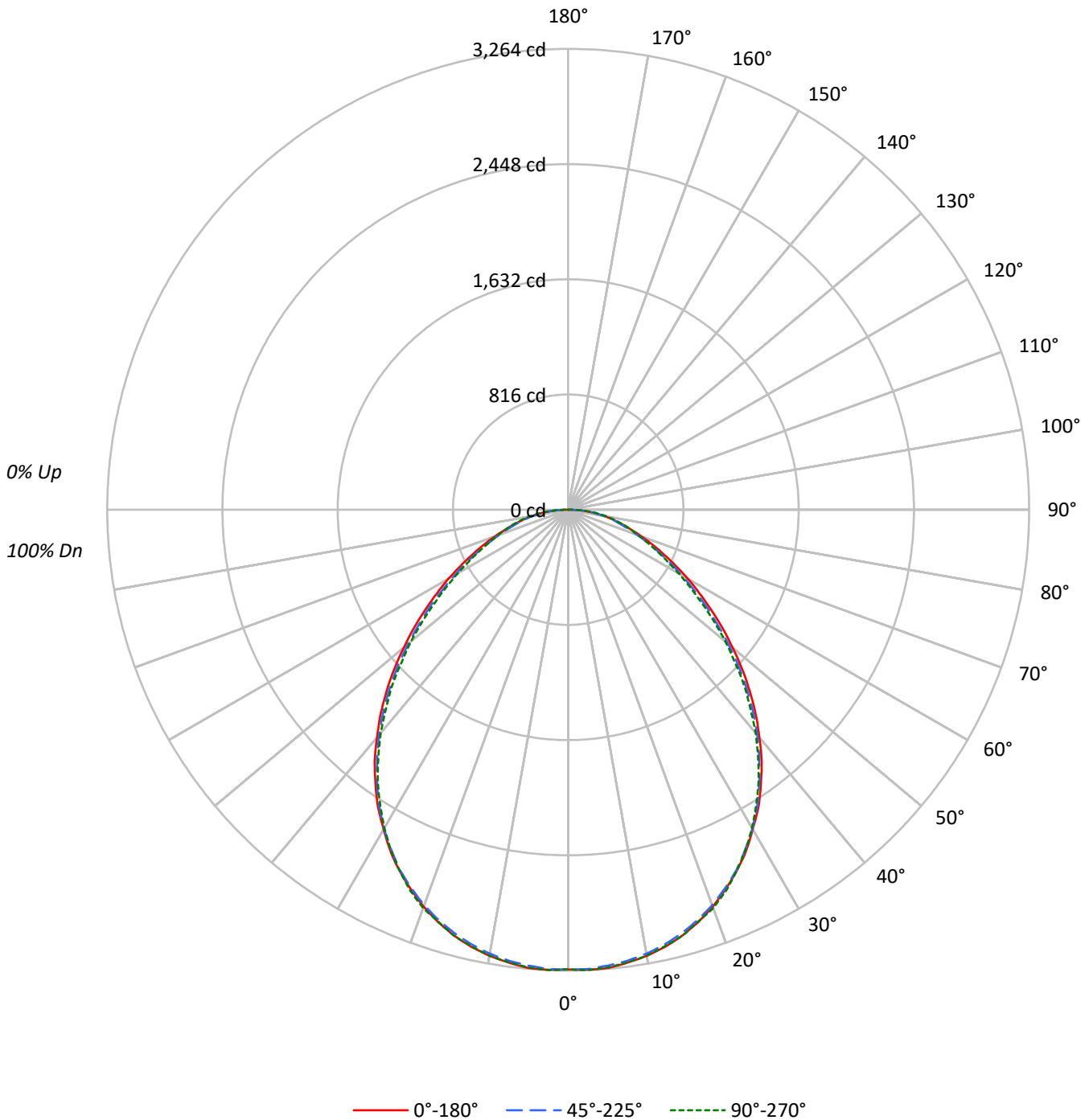
Input Watts (W): 63.891  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4381	4381	4381
5°	4401	4377	4395
10°	4383	4362	4382
15°	4349	4326	4352
20°	4285	4268	4299
25°	4192	4182	4191
30°	4060	4053	4043
35°	3907	3877	3861
40°	3698	3656	3626
45°	3459	3396	3354
50°	3179	3094	3041
55°	2899	2792	2711
60°	2633	2491	2427
65°	2372	2238	2200
70°	2172	2031	2087
75°	2030	1936	2079
80°	2014	1977	2171
85°	2052	2070	2367



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.2	4.0
10°-20°	876.2	11.4
20°-30°	1294.4	16.9
30°-40°	1471.6	19.2
40°-50°	1374.3	17.9
50°-60°	1068.7	13.9
60°-70°	709.1	9.3
70°-80°	410.4	5.4
80°-90°	149.2	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°	2478.7	32.4
0°-40°	3950.3	51.6
0°-60°	6393.3	83.4
0°-90°	7662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7662.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3256	3256	3256	3256	3256	
5°	3259	3242	3241	3247	3254	309
15°	3122	3107	3105	3104	3125	880
25°	2824	2812	2817	2811	2823	1298
35°	2378	2366	2360	2344	2351	1485
45°	1818	1804	1784	1762	1763	1401
55°	1236	1218	1190	1159	1156	1108
65°	745	722	703	690	691	744
75°	390	381	372	389	400	418
85°	133	130	134	152	153	145
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3256.3	3256.3	3256.3	3256.3	3256.3
2.5°	3261.1	3251.6	3256.3	3252.8	3263.5
5°	3258.7	3242.0	3240.8	3246.8	3254.0
7.5°	3236.0	3218.0	3221.6	3221.6	3233.6
10°	3208.4	3190.5	3192.9	3194.1	3207.2
12.5°	3171.3	3153.4	3154.6	3153.4	3166.5
15°	3122.2	3106.6	3105.4	3104.3	3124.6
17.5°	3062.3	3040.8	3048.0	3049.2	3059.9
20°	2992.9	2976.1	2980.9	2979.7	3002.5
22.5°	2910.2	2898.3	2901.9	2899.5	2921.0
25°	2824.0	2812.0	2816.8	2810.8	2822.8
27.5°	2727.0	2718.6	2713.8	2710.2	2718.6
30°	2613.2	2608.4	2608.4	2592.9	2602.4
32.5°	2505.4	2489.9	2489.9	2483.9	2477.9
35°	2378.5	2366.5	2360.5	2343.8	2350.9
37.5°	2251.5	2224.0	2221.6	2208.4	2208.4
40°	2105.4	2089.9	2081.5	2067.1	2064.7
42.5°	1966.5	1950.9	1936.6	1912.6	1907.8
45°	1818.0	1803.6	1784.5	1761.7	1762.9
47.5°	1670.7	1650.3	1632.4	1604.8	1601.2
50°	1518.6	1504.2	1477.9	1453.9	1452.7
52.5°	1376.1	1353.3	1329.4	1300.6	1300.6
55°	1236.0	1218.0	1190.4	1159.3	1155.7
57.5°	1101.8	1085.1	1053.9	1031.2	1025.2
60°	978.5	954.5	925.8	906.6	901.8
62.5°	855.1	833.5	812.0	792.8	791.6
65°	744.9	722.2	703.0	689.8	691.0
67.5°	645.5	626.4	604.8	601.2	602.4
70°	552.1	531.7	516.2	524.6	530.5
72.5°	463.5	452.7	441.9	453.9	462.3
75°	390.4	380.8	372.5	389.2	400.0
77.5°	323.4	316.2	315.0	329.3	338.9
80°	259.9	251.5	255.1	271.9	280.2
82.5°	197.6	191.6	192.8	213.2	219.2
85°	132.9	130.5	134.1	152.1	153.3
87.5°	70.7	70.7	73.1	83.8	80.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)