

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: P293405

Luminaire Tested: **24GR-LD5-85-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293405
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6754.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

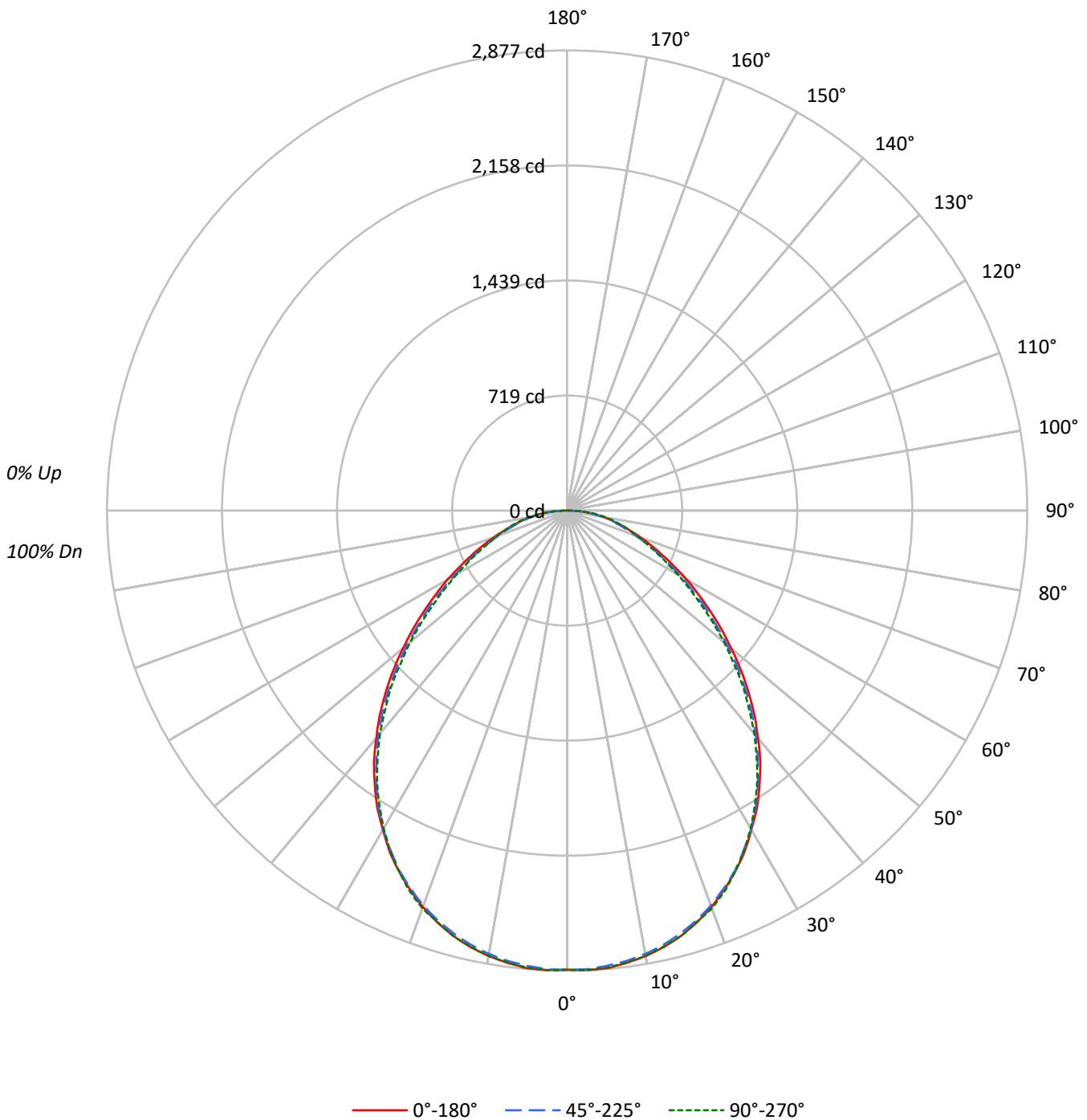
Input Watts (W): 61.845
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3862	3862	3862
5°	3880	3858	3874
10°	3864	3845	3863
15°	3834	3813	3837
20°	3777	3762	3790
25°	3696	3686	3694
30°	3579	3572	3564
35°	3444	3418	3404
40°	3260	3223	3197
45°	3049	2993	2957
50°	2802	2727	2681
55°	2556	2462	2390
60°	2321	2196	2139
65°	2090	1973	1939
70°	1915	1790	1840
75°	1789	1707	1833
80°	1775	1743	1914
85°	1809	1825	2086



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	4.0
10°-20°	772.3	11.4
20°-30°	1141.0	16.9
30°-40°	1297.2	19.2
40°-50°	1211.4	17.9
50°-60°	942.1	13.9
60°-70°	625.1	9.3
70°-80°	361.7	5.4
80°-90°	131.5	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°	2185.0	32.4
0°-40°	3482.2	51.6
0°-60°	5635.6	83.4
0°-90°	6754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2870	2870	2870	2870	2870	
5°	2873	2858	2857	2862	2868	273
15°	2752	2738	2737	2736	2754	775
25°	2489	2479	2483	2478	2488	1145
35°	2097	2086	2081	2066	2072	1309
45°	1603	1590	1573	1553	1554	1235
55°	1090	1074	1049	1022	1019	977
65°	657	637	620	608	609	656
75°	344	336	328	343	353	368
85°	117	115	118	134	135	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2874.7	2866.2	2870.4	2867.3	2876.8
5°	2872.6	2857.8	2856.7	2862.0	2868.3
7.5°	2852.5	2836.7	2839.8	2839.8	2850.4
10°	2828.2	2812.4	2814.5	2815.6	2827.2
12.5°	2795.5	2779.7	2780.7	2779.7	2791.3
15°	2752.2	2738.5	2737.4	2736.4	2754.3
17.5°	2699.4	2680.4	2686.8	2687.8	2697.3
20°	2638.2	2623.4	2627.6	2626.6	2646.6
22.5°	2565.4	2554.8	2558.0	2555.9	2574.9
25°	2489.3	2478.8	2483.0	2477.7	2488.3
27.5°	2403.8	2396.4	2392.2	2389.0	2396.4
30°	2303.5	2299.3	2299.3	2285.6	2294.0
32.5°	2208.5	2194.8	2194.8	2189.5	2184.2
35°	2096.6	2086.1	2080.8	2066.0	2072.3
37.5°	1984.7	1960.4	1958.3	1946.7	1946.7
40°	1855.9	1842.2	1834.8	1822.1	1820.0
42.5°	1733.5	1719.7	1707.1	1686.0	1681.7
45°	1602.6	1589.9	1573.0	1552.9	1554.0
47.5°	1472.7	1454.8	1438.9	1414.6	1411.5
50°	1338.6	1326.0	1302.7	1281.6	1280.6
52.5°	1213.0	1192.9	1171.8	1146.5	1146.5
55°	1089.5	1073.6	1049.4	1021.9	1018.8
57.5°	971.2	956.5	929.0	909.0	903.7
60°	862.5	841.4	816.1	799.2	794.9
62.5°	753.8	734.8	715.8	698.9	697.8
65°	656.6	636.6	619.7	608.1	609.1
67.5°	569.0	552.1	533.1	530.0	531.0
70°	486.7	468.7	455.0	462.4	467.7
72.5°	408.6	399.1	389.6	400.1	407.5
75°	344.2	335.7	328.3	343.1	352.6
77.5°	285.0	278.7	277.6	290.3	298.8
80°	229.1	221.7	224.9	239.6	247.0
82.5°	174.2	168.9	170.0	187.9	193.2
85°	117.2	115.1	118.2	134.1	135.1
87.5°	62.3	62.3	64.4	73.9	70.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)