

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: P293031

Luminaire Tested: **24GR-LD5-85-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-F1-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8535.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

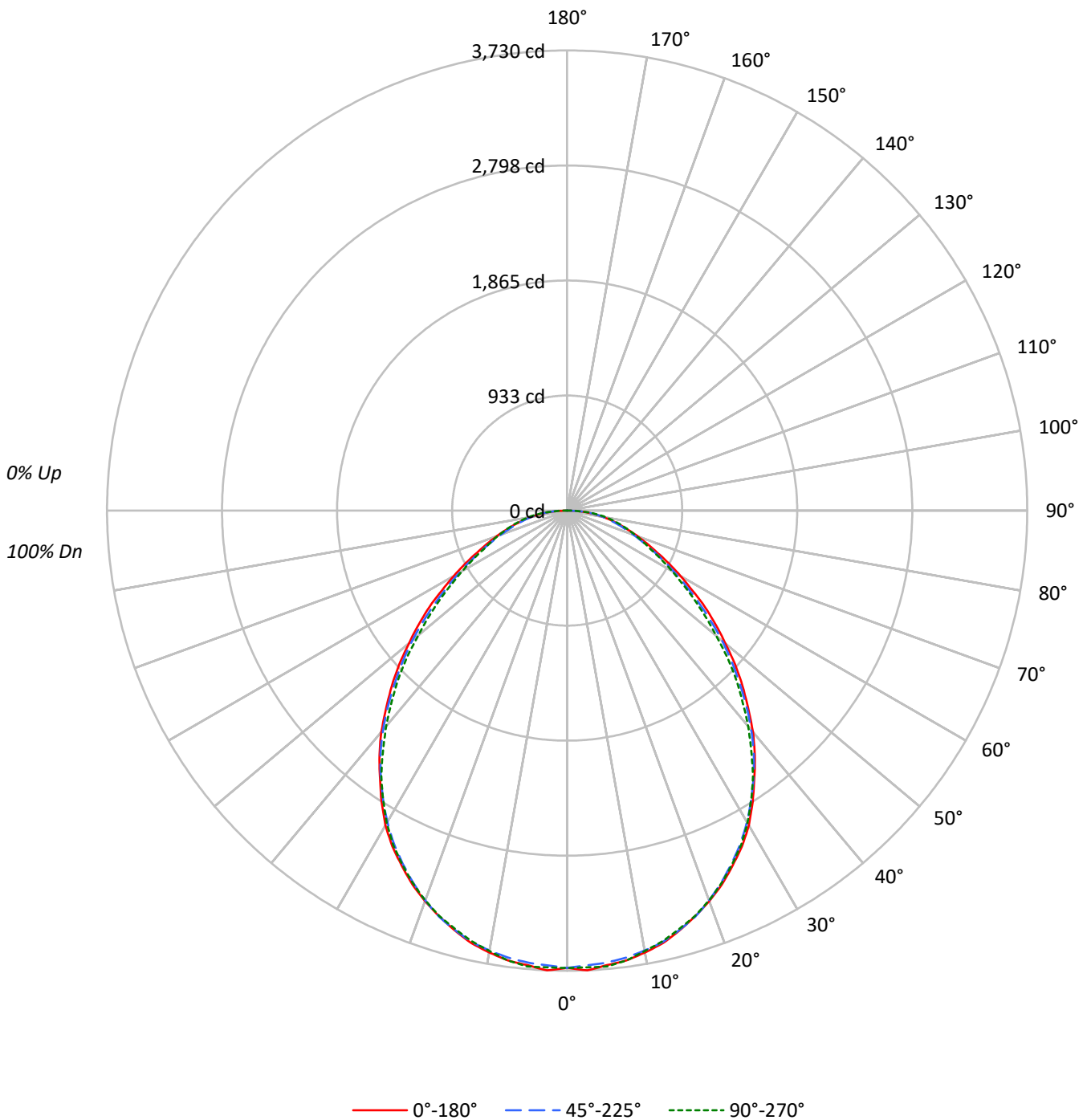
Input Watts (W): 63.891
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	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	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4988	4988	4988
5°	4995	4967	5010
10°	4969	4947	4952
15°	4907	4902	4890
20°	4824	4814	4814
25°	4712	4686	4696
30°	4576	4529	4543
35°	4346	4326	4314
40°	4115	4078	4007
45°	3825	3758	3685
50°	3504	3427	3298
55°	3200	3056	2953
60°	2852	2714	2643
65°	2567	2432	2399
70°	2382	2237	2327
75°	2279	2178	2361
80°	2278	2278	2524
85°	2365	2391	2663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.1	4.1
10°-20°	990.8	11.6
20°-30°	1454.2	17.0
30°-40°	1644.1	19.3
40°-50°	1519.5	17.8
50°-60°	1170.7	13.7
60°-70°	775.2	9.1
70°-80°	461.5	5.4
80°-90°	169.1	2.0
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°	2795.1	32.7
0°-40°	4439.2	52.0
0°-60°	7129.3	83.5
0°-90°	8535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3707	3707	3707	3707	3707	
5°	3699	3699	3678	3679	3709	351
15°	3523	3516	3519	3517	3510	993
25°	3174	3165	3156	3153	3163	1461
35°	2646	2642	2634	2621	2626	1656
45°	2010	1996	1975	1940	1936	1549
55°	1364	1336	1303	1268	1259	1217
65°	806	794	764	757	754	808
75°	438	428	419	438	454	467
85°	153	144	155	171	172	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3707.4	3707.4	3707.4	3707.4	3707.4
2.5°	3730.3	3710.9	3689.8	3689.8	3705.6
5°	3698.6	3698.6	3677.5	3679.2	3709.2
7.5°	3679.2	3668.7	3654.6	3654.6	3677.5
10°	3637.0	3628.2	3621.1	3617.6	3624.7
12.5°	3591.2	3577.1	3582.4	3577.1	3575.4
15°	3522.6	3515.5	3519.0	3517.3	3510.2
17.5°	3448.6	3445.1	3452.1	3439.8	3445.1
20°	3369.4	3358.8	3362.4	3355.3	3362.4
22.5°	3279.6	3272.6	3263.8	3255.0	3269.1
25°	3174.0	3165.2	3156.4	3152.9	3163.4
27.5°	3068.4	3054.3	3042.0	3038.4	3054.3
30°	2945.1	2929.3	2915.2	2911.7	2924.0
32.5°	2799.0	2795.5	2777.9	2770.9	2776.2
35°	2645.9	2642.4	2633.6	2621.2	2626.5
37.5°	2499.8	2498.0	2485.7	2464.6	2450.5
40°	2343.1	2330.8	2322.0	2292.0	2281.5
42.5°	2170.6	2167.1	2151.2	2117.8	2105.4
45°	2010.4	1996.3	1975.2	1940.0	1936.4
47.5°	1844.9	1825.5	1806.2	1762.2	1760.4
50°	1674.1	1660.1	1637.2	1593.2	1575.6
52.5°	1515.7	1496.3	1464.7	1422.4	1413.6
55°	1364.3	1336.1	1302.7	1267.5	1258.7
57.5°	1202.4	1190.0	1149.5	1121.4	1110.8
60°	1059.8	1049.2	1008.7	982.3	982.3
62.5°	931.3	915.4	880.2	862.6	862.6
65°	806.3	793.9	764.0	757.0	753.5
67.5°	698.9	683.0	661.9	660.1	669.0
70°	605.6	586.2	568.6	586.2	591.5
72.5°	517.6	505.2	489.4	512.3	522.8
75°	438.3	427.8	419.0	438.3	454.2
77.5°	366.2	355.6	355.6	376.7	390.8
80°	294.0	286.9	294.0	311.6	325.7
82.5°	225.3	220.0	228.9	246.5	255.3
85°	153.2	144.4	154.9	170.8	172.5
87.5°	72.2	70.4	77.5	88.0	86.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)