

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: P294040

Luminaire Tested: **24GR-LD5-85-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A19/156-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8389.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

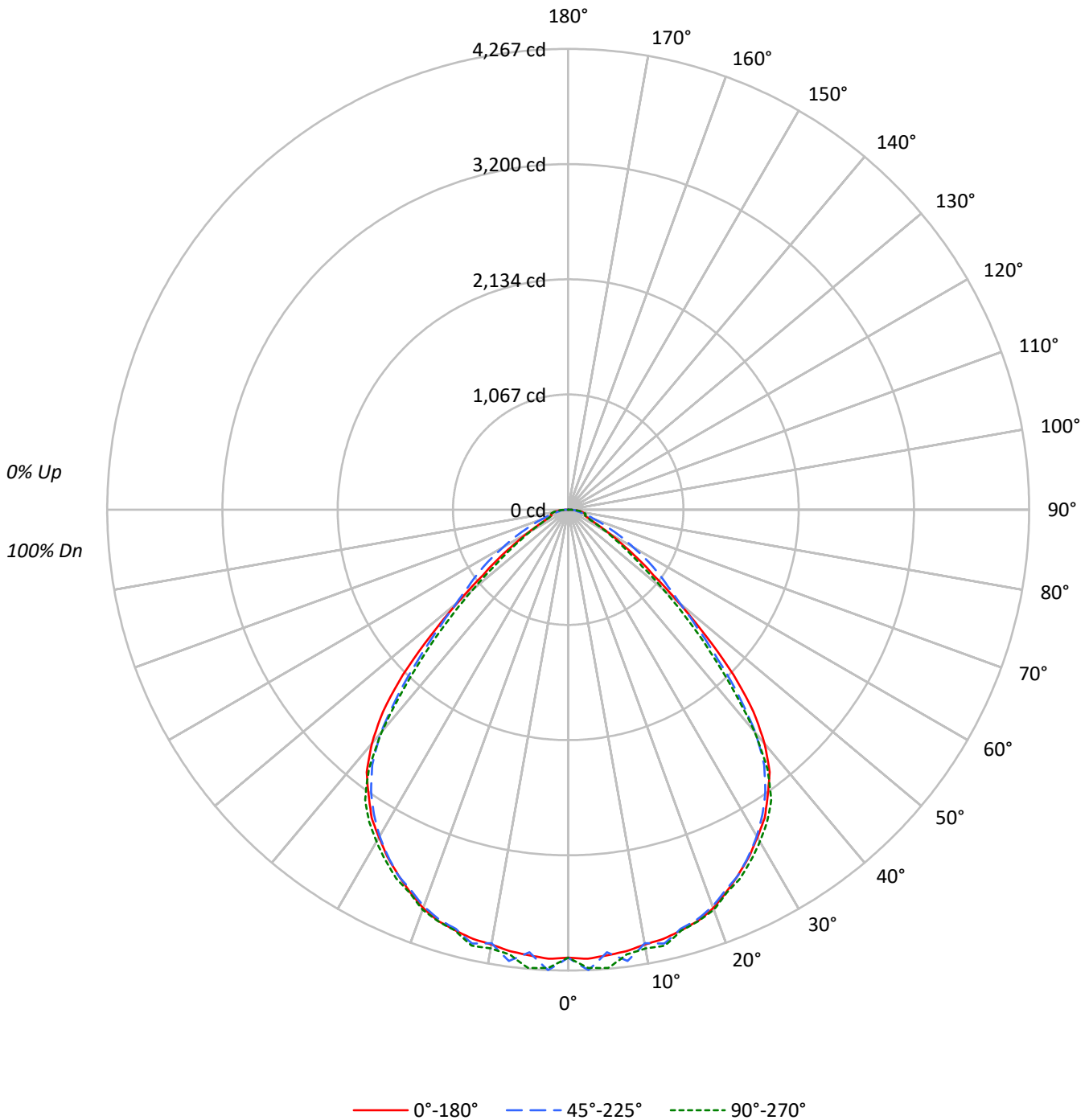
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53				53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48				48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43				43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5581	5581	5581
5°	5593	5557	5754
10°	5585	5568	5636
15°	5617	5598	5621
20°	5621	5598	5644
25°	5534	5538	5592
30°	5442	5425	5513
35°	5289	5225	5382
40°	4967	4744	4718
45°	4117	3725	3533
50°	2769	2826	2414
55°	1827	2370	1583
60°	1171	1871	1084
65°	755	1428	734
70°	668	1023	668
75°	861	813	869
80°	1055	700	1106
85°	1227	1041	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.2	4.7
10°-20°	1140.4	13.6
20°-30°	1716.9	20.5
30°-40°	1990.0	23.7
40°-50°	1554.5	18.5
50°-60°	830.0	9.9
60°-70°	426.8	5.1
70°-80°	241.5	2.9
80°-90°	91.7	1.1
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°	3254.5	38.8
0°-40°	5244.5	62.5
0°-60°	7629.0	90.9
0°-90°	8389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4148	4148	4148	4148	4148	
5°	4141	4257	4114	4228	4260	394
15°	4032	4058	4019	4044	4035	1139
25°	3728	3716	3730	3725	3767	1718
35°	3220	3205	3181	3244	3276	2007
45°	2164	2165	1958	1940	1856	1630
55°	779	985	1010	911	675	719
65°	237	494	449	493	230	261
75°	166	311	156	291	167	168
85°	80	104	67	104	84	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4148.1	4148.1	4148.1	4148.1	4148.1
2.5°	4161.6	4237.0	4266.7	4230.3	4246.5
5°	4141.4	4257.2	4114.4	4227.6	4259.9
7.5°	4122.5	4110.4	4214.1	4106.4	4152.2
10°	4087.5	4095.6	4075.4	4152.2	4125.2
12.5°	4071.3	4118.5	4114.4	4075.4	4134.6
15°	4032.3	4057.9	4018.8	4044.4	4035.0
17.5°	3993.2	3981.1	3977.0	3987.8	3997.2
20°	3925.8	3885.4	3909.7	3912.4	3942.0
22.5°	3828.8	3804.6	3810.0	3834.2	3836.9
25°	3727.8	3715.7	3730.5	3725.1	3766.9
27.5°	3622.7	3606.5	3616.0	3636.2	3661.8
30°	3502.8	3498.8	3492.0	3509.5	3548.6
32.5°	3384.2	3351.9	3346.5	3382.9	3427.4
35°	3219.9	3205.1	3180.8	3244.1	3276.5
37.5°	3063.6	3017.8	2978.7	3016.4	3029.9
40°	2827.8	2792.8	2701.2	2705.2	2686.4
42.5°	2538.2	2512.6	2337.4	2306.5	2253.9
45°	2163.7	2165.0	1957.5	1940.0	1856.5
47.5°	1728.5	1805.3	1624.8	1604.6	1480.6
50°	1323.0	1461.7	1349.9	1317.6	1153.2
52.5°	992.9	1196.3	1161.3	1091.3	864.9
55°	778.7	984.8	1010.4	910.7	675.0
57.5°	586.0	811.0	852.8	770.6	521.4
60°	435.2	683.0	695.2	662.8	402.8
62.5°	323.3	580.7	564.5	568.5	299.1
65°	237.1	494.4	448.6	493.1	230.4
67.5°	194.0	428.4	348.9	427.1	187.3
70°	169.8	379.9	260.0	375.9	169.8
72.5°	164.4	348.9	206.1	334.1	165.7
75°	165.7	311.2	156.3	291.0	167.1
77.5°	152.2	256.0	118.6	247.9	159.0
80°	136.1	194.0	90.3	196.7	142.8
82.5°	115.9	141.5	72.8	145.5	119.9
85°	79.5	103.7	67.4	103.7	83.5
87.5°	37.7	62.0	41.8	59.3	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)