

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: P294162

Luminaire Tested: **24GR-LD5-85-A19/156-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294162
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-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6902.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

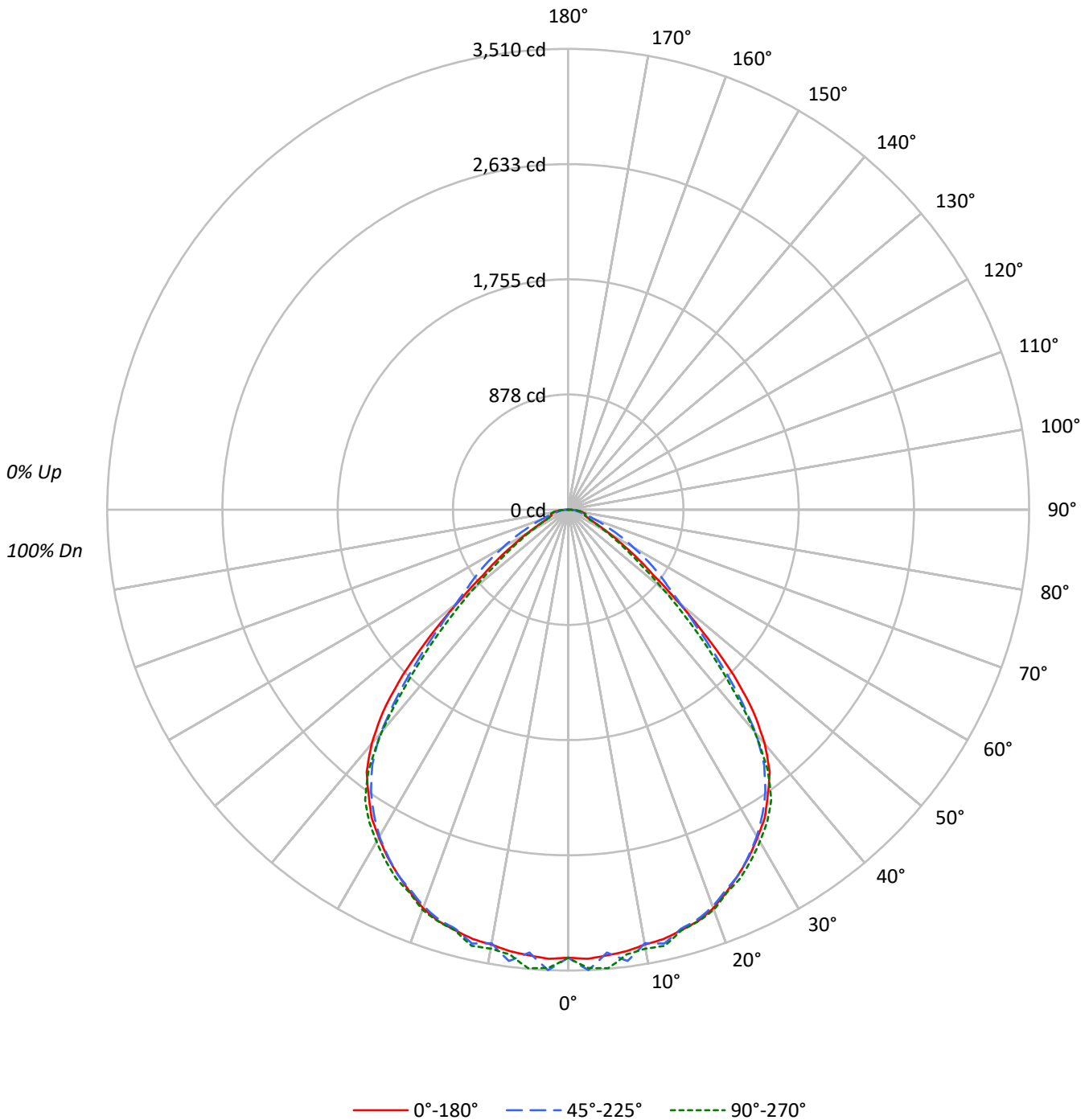
Input Watts (W): 62.589
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294162

CATALOG NUMBER: 24GR-LD5-85-A19/156-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P294162

CATALOG NUMBER: 24GR-LD5-85-A19/156-UNV-L92765-W2A1-U-3500K

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	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°	4592	4592	4592
5°	4602	4572	4734
10°	4595	4581	4637
15°	4621	4606	4624
20°	4625	4606	4644
25°	4553	4556	4601
30°	4477	4464	4536
35°	4351	4299	4428
40°	4086	3903	3882
45°	3387	3064	2906
50°	2278	2325	1986
55°	1503	1950	1303
60°	963	1539	892
65°	621	1175	603
70°	550	841	550
75°	709	669	714
80°	868	576	910
85°	1010	855	1061



TEST NUMBER: P294162

CATALOG NUMBER: 24GR-LD5-85-A19/156-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.8	4.7
10°-20°	938.3	13.6
20°-30°	1412.6	20.5
30°-40°	1637.2	23.7
40°-50°	1278.9	18.5
50°-60°	682.9	9.9
60°-70°	351.2	5.1
70°-80°	198.7	2.9
80°-90°	75.4	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°	2677.6	38.8
0°-40°	4314.8	62.5
0°-60°	6276.7	90.9
0°-90°	6902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3413	3413	3413	3413	3413	
5°	3407	3503	3385	3478	3505	324
15°	3318	3339	3306	3328	3320	937
25°	3067	3057	3069	3065	3099	1413
35°	2649	2637	2617	2669	2696	1652
45°	1780	1781	1610	1596	1527	1341
55°	641	810	831	749	555	591
65°	195	407	369	406	190	214
75°	136	256	129	239	137	138
85°	65	85	55	85	69	67
90°	0	0	0	0	0	



TEST NUMBER: P294162

CATALOG NUMBER: 24GR-LD5-85-A19/156-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3412.8	3412.8	3412.8	3412.8	3412.8
2.5°	3423.9	3486.0	3510.4	3480.5	3493.8
5°	3407.3	3502.6	3385.1	3478.2	3504.8
7.5°	3391.8	3381.8	3467.2	3378.5	3416.2
10°	3363.0	3369.6	3353.0	3416.2	3394.0
12.5°	3349.7	3388.5	3385.1	3353.0	3401.8
15°	3317.5	3338.6	3306.4	3327.5	3319.7
17.5°	3285.4	3275.4	3272.1	3280.9	3288.7
20°	3230.0	3196.7	3216.6	3218.9	3243.3
22.5°	3150.1	3130.2	3134.6	3154.6	3156.8
25°	3067.0	3057.0	3069.2	3064.8	3099.2
27.5°	2980.6	2967.3	2975.0	2991.6	3012.7
30°	2881.9	2878.6	2873.0	2887.4	2919.6
32.5°	2784.4	2757.8	2753.3	2783.3	2819.8
35°	2649.1	2636.9	2617.0	2669.1	2695.7
37.5°	2520.6	2482.9	2450.7	2481.8	2492.8
40°	2326.6	2297.8	2222.4	2225.7	2210.2
42.5°	2088.3	2067.2	1923.1	1897.6	1854.4
45°	1780.1	1781.2	1610.5	1596.1	1527.4
47.5°	1422.1	1485.3	1336.8	1320.1	1218.2
50°	1088.5	1202.6	1110.6	1084.0	948.8
52.5°	816.9	984.3	955.5	897.8	711.6
55°	640.7	810.3	831.3	749.3	555.3
57.5°	482.2	667.3	701.6	634.0	429.0
60°	358.0	562.0	571.9	545.3	331.4
62.5°	266.0	477.7	464.4	467.8	246.1
65°	195.1	406.8	369.1	405.7	189.5
67.5°	159.6	352.5	287.1	351.4	154.1
70°	139.7	312.6	213.9	309.3	139.7
72.5°	135.2	287.1	169.6	274.9	136.3
75°	136.3	256.0	128.6	239.4	137.4
77.5°	125.3	210.6	97.5	204.0	130.8
80°	112.0	159.6	74.3	161.8	117.5
82.5°	95.3	116.4	59.9	119.7	98.6
85°	65.4	85.3	55.4	85.3	68.7
87.5°	31.0	51.0	34.4	48.8	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)