

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: P294009

Luminaire Tested: **24GR-LD5-56-A19/156-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294009
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-LD5-56-A19/156-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5357.0 lumens
Efficiency: N/A
Efficacy: 136.8 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

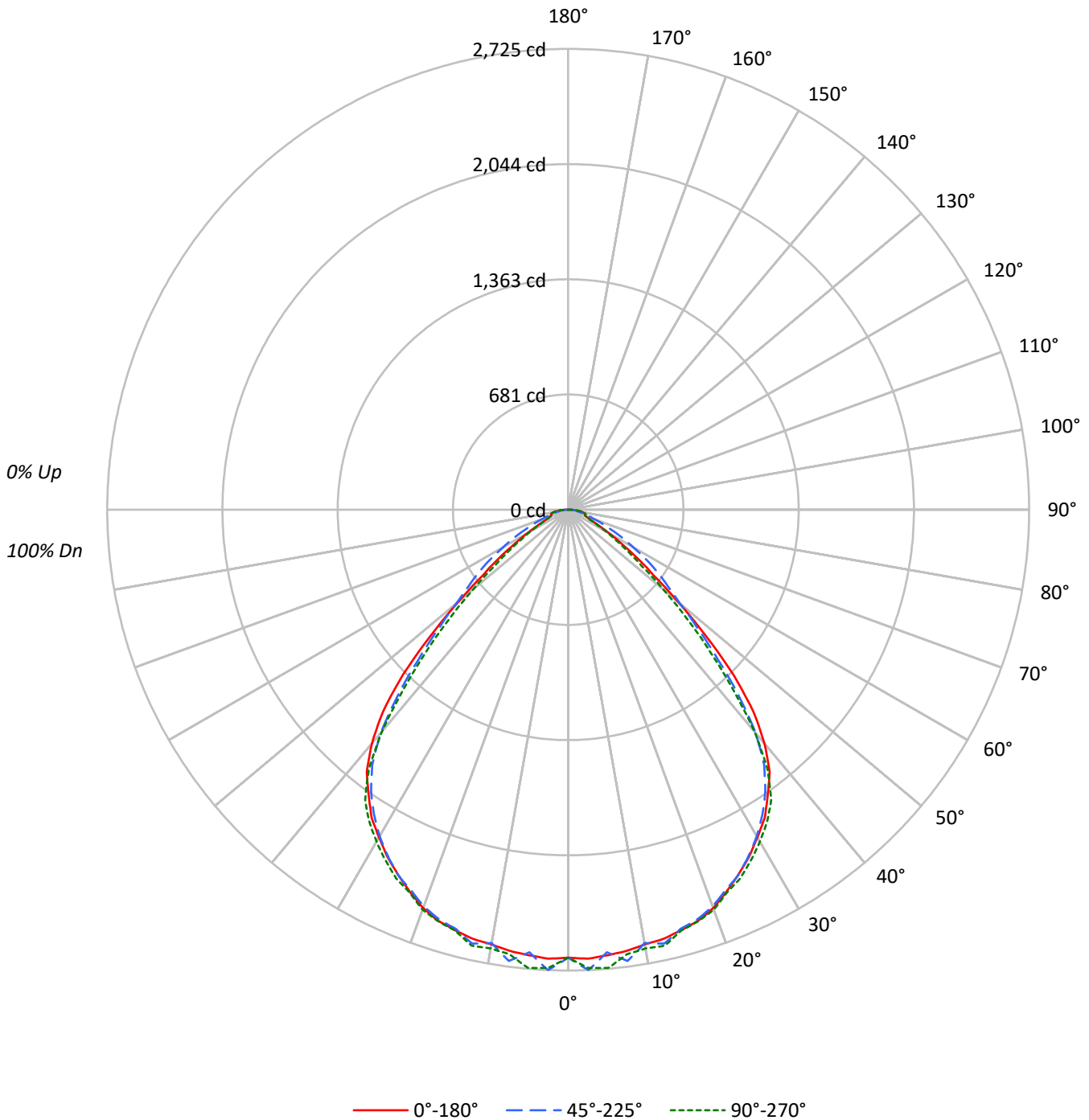
Input Watts (W): 39.153
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3564	3564	3564
5°	3572	3549	3674
10°	3566	3556	3599
15°	3587	3575	3589
20°	3589	3575	3604
25°	3534	3537	3571
30°	3475	3464	3521
35°	3377	3336	3437
40°	3172	3030	3013
45°	2629	2379	2256
50°	1768	1804	1541
55°	1167	1514	1011
60°	748	1195	692
65°	482	912	468
70°	426	653	426
75°	550	519	555
80°	673	446	707
85°	784	664	823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	4.7
10°-20°	728.2	13.6
20°-30°	1096.4	20.5
30°-40°	1270.7	23.7
40°-50°	992.7	18.5
50°-60°	530.0	9.9
60°-70°	272.6	5.1
70°-80°	154.2	2.9
80°-90°	58.6	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°	2078.2	38.8
0°-40°	3349.0	62.5
0°-60°	4871.7	90.9
0°-90°	5357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2649	2649	2649	2649	2649	
5°	2645	2719	2627	2700	2720	251
15°	2575	2591	2566	2583	2577	727
25°	2380	2373	2382	2379	2405	1097
35°	2056	2047	2031	2072	2092	1282
45°	1382	1382	1250	1239	1186	1041
55°	497	629	645	582	431	459
65°	151	316	286	315	147	166
75°	106	199	100	186	107	107
85°	51	66	43	66	53	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2648.9	2648.9	2648.9	2648.9	2648.9
2.5°	2657.5	2705.7	2724.6	2701.4	2711.7
5°	2644.6	2718.6	2627.4	2699.6	2720.3
7.5°	2632.5	2624.8	2691.0	2622.2	2651.5
10°	2610.2	2615.3	2602.4	2651.5	2634.3
12.5°	2599.8	2630.0	2627.4	2602.4	2640.3
15°	2574.9	2591.2	2566.3	2582.6	2576.6
17.5°	2549.9	2542.2	2539.6	2546.5	2552.5
20°	2506.9	2481.1	2496.6	2498.3	2517.3
22.5°	2445.0	2429.5	2432.9	2448.4	2450.2
25°	2380.5	2372.7	2382.2	2378.7	2405.4
27.5°	2313.4	2303.0	2309.1	2322.0	2338.3
30°	2236.8	2234.2	2229.9	2241.1	2266.0
32.5°	2161.1	2140.4	2137.0	2160.2	2188.6
35°	2056.1	2046.7	2031.2	2071.6	2092.3
37.5°	1956.3	1927.1	1902.1	1926.2	1934.8
40°	1805.8	1783.4	1724.9	1727.5	1715.5
42.5°	1620.8	1604.5	1492.6	1472.8	1439.3
45°	1381.7	1382.5	1250.0	1238.8	1185.5
47.5°	1103.8	1152.8	1037.5	1024.6	945.5
50°	844.8	933.4	862.0	841.4	736.4
52.5°	634.0	764.0	741.6	696.8	552.3
55°	497.3	628.9	645.2	581.6	431.0
57.5°	374.2	517.9	544.6	492.1	332.9
60°	277.9	436.2	443.9	423.3	257.2
62.5°	206.5	370.8	360.5	363.0	191.0
65°	151.4	315.7	286.5	314.9	147.1
67.5°	123.9	273.6	222.8	272.7	119.6
70°	108.4	242.6	166.0	240.0	108.4
72.5°	105.0	222.8	131.6	213.4	105.8
75°	105.8	198.7	99.8	185.8	106.7
77.5°	97.2	163.5	75.7	158.3	101.5
80°	86.9	123.9	57.6	125.6	91.2
82.5°	74.0	90.3	46.5	92.9	76.6
85°	50.8	66.2	43.0	66.2	53.3
87.5°	24.1	39.6	26.7	37.9	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)