

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: P294139

Luminaire Tested: **24GR-LD5-56-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294139
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-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5148.0 lumens
Efficiency: N/A
Efficacy: 128.4 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

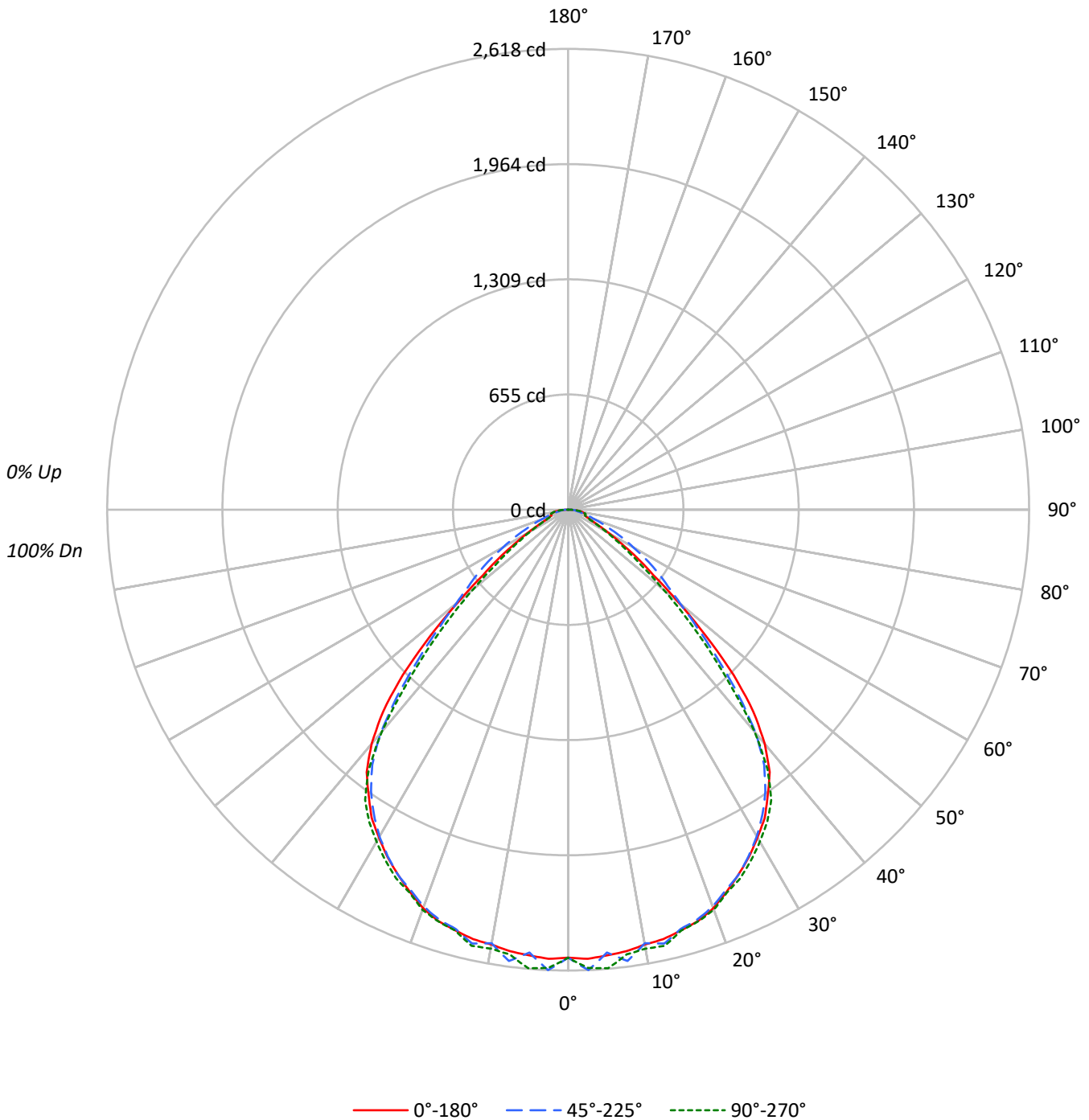
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3425	3425	3425
5°	3432	3410	3531
10°	3427	3417	3459
15°	3447	3435	3449
20°	3449	3435	3464
25°	3396	3399	3432
30°	3340	3329	3383
35°	3245	3206	3302
40°	3048	2911	2895
45°	2526	2286	2168
50°	1699	1734	1481
55°	1121	1455	972
60°	718	1148	665
65°	463	876	450
70°	410	628	410
75°	529	499	533
80°	647	429	679
85°	753	638	792



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	4.7
10°-20°	699.8	13.6
20°-30°	1053.6	20.5
30°-40°	1221.2	23.7
40°-50°	953.9	18.5
50°-60°	509.4	9.9
60°-70°	261.9	5.1
70°-80°	148.2	2.9
80°-90°	56.3	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°	1997.1	38.8
0°-40°	3218.3	62.5
0°-60°	4681.6	90.9
0°-90°	5148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2546	2546	2546	2546	2546	
5°	2541	2612	2525	2594	2614	242
15°	2474	2490	2466	2482	2476	699
25°	2288	2280	2289	2286	2312	1054
35°	1976	1967	1952	1991	2011	1232
45°	1328	1329	1201	1190	1139	1001
55°	478	604	620	559	414	441
65°	146	303	275	303	141	160
75°	102	191	96	179	102	103
85°	49	64	41	64	51	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2545.5	2545.5	2545.5	2545.5	2545.5
2.5°	2553.8	2600.1	2618.3	2596.0	2605.9
5°	2541.4	2612.5	2524.9	2594.3	2614.2
7.5°	2529.8	2522.4	2586.0	2519.9	2548.0
10°	2508.3	2513.3	2500.9	2548.0	2531.5
12.5°	2498.4	2527.4	2524.9	2500.9	2537.3
15°	2474.4	2490.1	2466.2	2481.9	2476.1
17.5°	2450.5	2443.0	2440.5	2447.2	2452.9
20°	2409.1	2384.3	2399.2	2400.9	2419.0
22.5°	2349.6	2334.7	2338.0	2352.9	2354.6
25°	2287.6	2280.2	2289.2	2285.9	2311.6
27.5°	2223.1	2213.2	2219.0	2231.4	2247.1
30°	2149.5	2147.0	2142.9	2153.7	2177.6
32.5°	2076.8	2056.9	2053.6	2075.9	2103.2
35°	1975.9	1966.8	1951.9	1990.8	2010.6
37.5°	1880.0	1851.9	1827.9	1851.1	1859.3
40°	1735.3	1713.8	1657.6	1660.1	1648.5
42.5°	1557.6	1541.9	1434.4	1415.4	1383.1
45°	1327.7	1328.6	1201.3	1190.5	1139.3
47.5°	1060.7	1107.8	997.1	984.6	908.6
50°	811.9	897.0	828.4	808.6	707.7
52.5°	609.3	734.1	712.7	669.7	530.8
55°	477.9	604.3	620.1	558.9	414.2
57.5°	359.6	497.7	523.3	472.9	319.9
60°	267.0	419.2	426.6	406.8	247.2
62.5°	198.4	356.3	346.4	348.9	183.5
65°	145.5	303.4	275.3	302.6	141.4
67.5°	119.1	262.9	214.1	262.1	114.9
70°	104.2	233.1	159.6	230.7	104.2
72.5°	100.9	214.1	126.5	205.0	101.7
75°	101.7	191.0	95.9	178.6	102.5
77.5°	93.4	157.1	72.8	152.1	97.6
80°	83.5	119.1	55.4	120.7	87.6
82.5°	71.1	86.8	44.6	89.3	73.6
85°	48.8	63.7	41.3	63.7	51.3
87.5°	23.1	38.0	25.6	36.4	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)