

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: P294013

Luminaire Tested: **24GR-LD5-56-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294013
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-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: 5703.0 lumens
Efficiency: N/A
Efficacy: 142.3 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

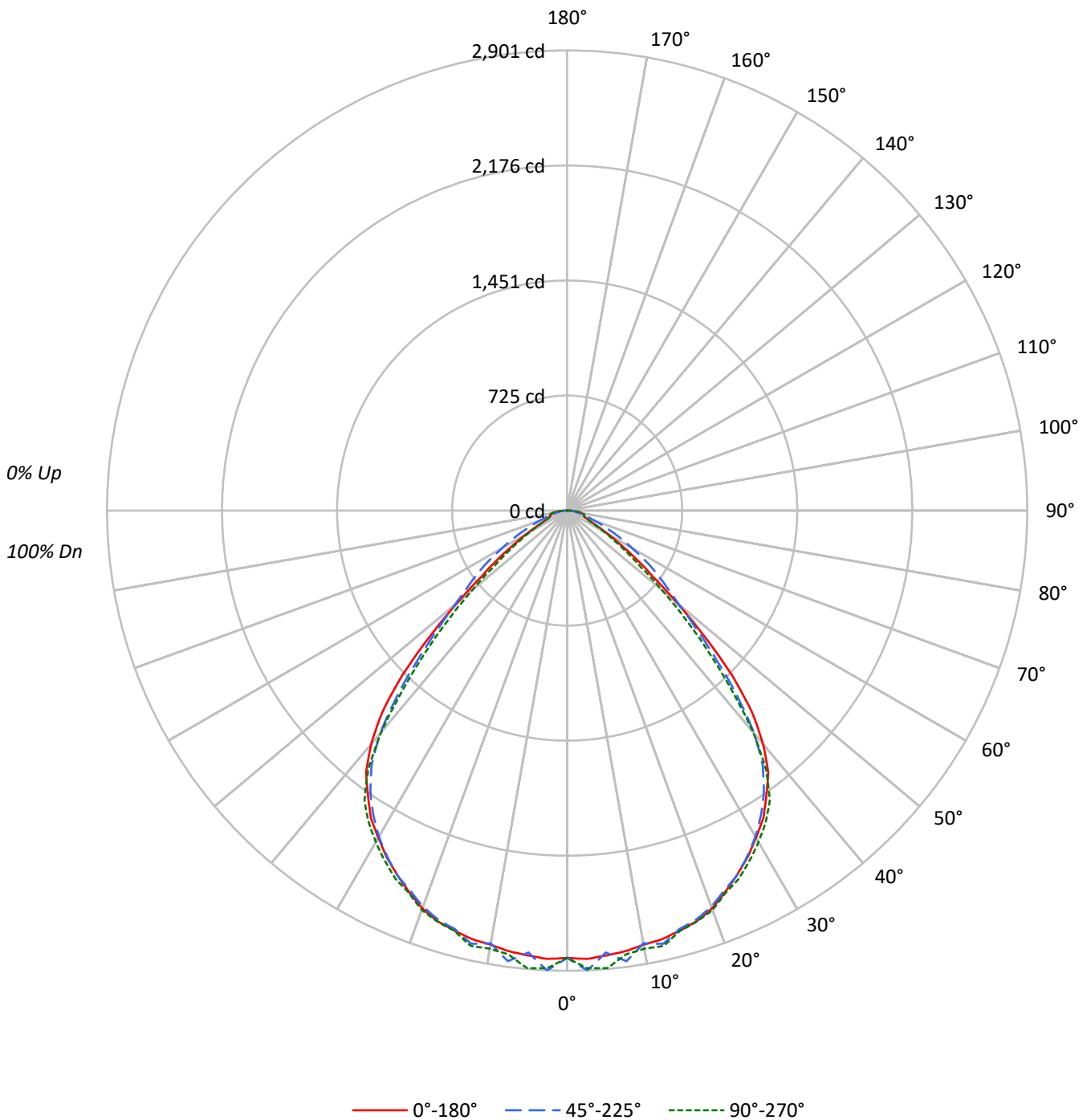
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3794	3794	3794
5°	3803	3778	3911
10°	3797	3785	3831
15°	3818	3806	3821
20°	3821	3806	3837
25°	3762	3765	3802
30°	3700	3688	3748
35°	3595	3552	3659
40°	3377	3225	3208
45°	2799	2532	2402
50°	1883	1921	1641
55°	1242	1611	1076
60°	796	1272	737
65°	513	971	499
70°	454	696	454
75°	586	552	591
80°	717	476	752
85°	834	707	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	4.7
10°-20°	775.3	13.6
20°-30°	1167.2	20.5
30°-40°	1352.8	23.7
40°-50°	1056.8	18.5
50°-60°	564.3	9.9
60°-70°	290.2	5.1
70°-80°	164.1	2.9
80°-90°	62.3	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°	2212.4	38.8
0°-40°	3565.3	62.5
0°-60°	5186.3	90.9
0°-90°	5703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2820	2820	2820	2820	2820	
5°	2815	2894	2797	2874	2896	268
15°	2741	2759	2732	2749	2743	774
25°	2534	2526	2536	2532	2561	1168
35°	2189	2179	2162	2205	2227	1365
45°	1471	1472	1331	1319	1262	1108
55°	529	670	687	619	459	489
65°	161	336	305	335	157	177
75°	113	212	106	198	114	114
85°	54	70	46	70	57	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2820.0	2820.0	2820.0	2820.0	2820.0
2.5°	2829.1	2880.4	2900.6	2875.8	2886.8
5°	2815.4	2894.2	2797.1	2874.0	2896.0
7.5°	2802.6	2794.3	2864.8	2791.6	2822.7
10°	2778.8	2784.3	2770.5	2822.7	2804.4
12.5°	2767.8	2799.8	2797.1	2770.5	2810.8
15°	2741.2	2758.6	2732.0	2749.4	2743.0
17.5°	2714.6	2706.4	2703.7	2711.0	2717.4
20°	2668.9	2641.4	2657.9	2659.7	2679.8
22.5°	2602.9	2586.4	2590.1	2606.6	2608.4
25°	2534.2	2526.0	2536.0	2532.4	2560.8
27.5°	2462.8	2451.8	2458.2	2471.9	2489.3
30°	2381.3	2378.5	2373.9	2385.8	2412.4
32.5°	2300.7	2278.7	2275.0	2299.8	2330.0
35°	2188.9	2178.9	2162.4	2205.4	2227.4
37.5°	2082.7	2051.6	2025.0	2050.6	2059.8
40°	1922.4	1898.6	1836.3	1839.1	1826.2
42.5°	1725.5	1708.1	1589.0	1568.0	1532.3
45°	1470.9	1471.8	1330.8	1318.9	1262.1
47.5°	1175.1	1227.3	1104.5	1090.8	1006.5
50°	899.4	993.7	917.7	895.7	784.0
52.5°	675.0	813.3	789.5	741.9	588.0
55°	529.4	669.5	686.9	619.1	458.9
57.5°	398.4	551.4	579.7	523.9	354.4
60°	295.8	464.3	472.6	450.6	273.8
62.5°	219.8	394.7	383.8	386.5	203.3
65°	161.2	336.1	305.0	335.2	156.6
67.5°	131.9	291.2	237.2	290.3	127.3
70°	115.4	258.3	176.8	255.5	115.4
72.5°	111.7	237.2	140.1	227.1	112.7
75°	112.7	211.6	106.2	197.8	113.6
77.5°	103.5	174.0	80.6	168.5	108.1
80°	92.5	131.9	61.4	133.7	97.1
82.5°	78.8	96.2	49.5	98.9	81.5
85°	54.0	70.5	45.8	70.5	56.8
87.5°	25.6	42.1	28.4	40.3	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)