

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: P294145

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294145
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-LD5-64-A19/156-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5501.0 lumens
Efficiency: N/A
Efficacy: 118.3 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

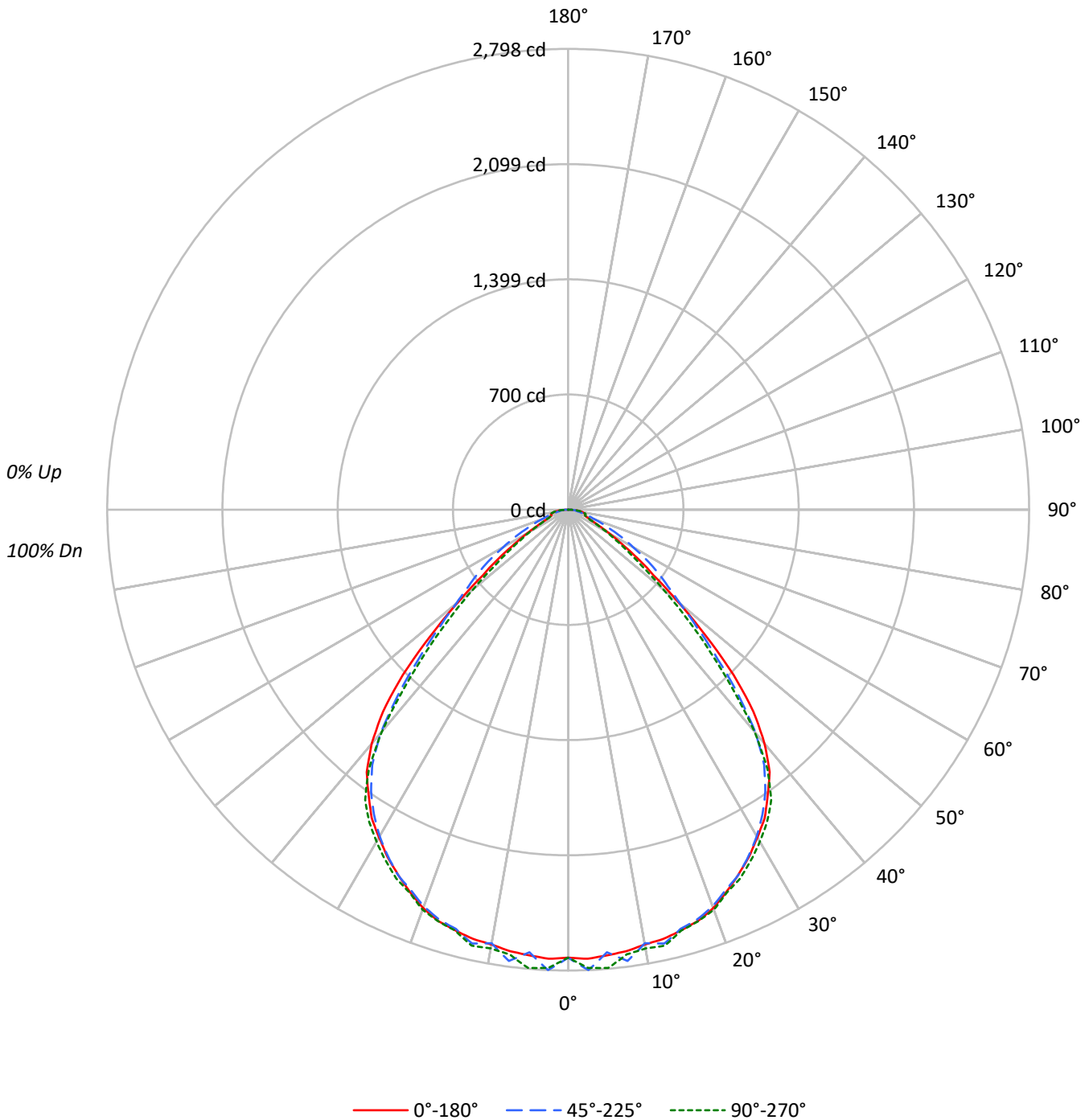
Input Watts (W): 46.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3660	3660	3660
5°	3668	3644	3773
10°	3662	3651	3696
15°	3683	3671	3686
20°	3686	3671	3701
25°	3629	3632	3667
30°	3569	3558	3615
35°	3468	3426	3529
40°	3257	3111	3094
45°	2700	2442	2316
50°	1816	1853	1583
55°	1198	1554	1038
60°	768	1227	711
65°	495	937	481
70°	438	671	438
75°	565	533	569
80°	691	459	725
85°	804	682	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	4.7
10°-20°	747.8	13.6
20°-30°	1125.8	20.5
30°-40°	1304.9	23.7
40°-50°	1019.3	18.5
50°-60°	544.3	9.9
60°-70°	279.9	5.1
70°-80°	158.3	2.9
80°-90°	60.1	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°	2134.1	38.8
0°-40°	3439.0	62.5
0°-60°	5002.6	90.9
0°-90°	5501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2720	2720	2720	2720	2720	
5°	2716	2792	2698	2772	2793	258
15°	2644	2661	2635	2652	2646	747
25°	2444	2436	2446	2443	2470	1126
35°	2111	2102	2086	2127	2148	1316
45°	1419	1420	1284	1272	1217	1069
55°	511	646	663	597	443	471
65°	156	324	294	323	151	171
75°	109	204	102	191	110	110
85°	52	68	44	68	55	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2720.1	2720.1	2720.1	2720.1	2720.1
2.5°	2728.9	2778.4	2797.8	2774.0	2784.6
5°	2715.7	2791.6	2698.0	2772.2	2793.4
7.5°	2703.3	2695.4	2763.4	2692.7	2722.7
10°	2680.3	2685.6	2672.4	2722.7	2705.1
12.5°	2669.7	2700.7	2698.0	2672.4	2711.3
15°	2644.1	2660.9	2635.3	2652.1	2645.9
17.5°	2618.5	2610.5	2607.9	2615.0	2621.1
20°	2574.3	2547.8	2563.7	2565.5	2584.9
22.5°	2510.7	2494.8	2498.3	2514.2	2516.0
25°	2444.5	2436.5	2446.2	2442.7	2470.1
27.5°	2375.5	2364.9	2371.1	2384.4	2401.2
30°	2296.9	2294.3	2289.9	2301.3	2327.0
32.5°	2219.2	2198.0	2194.4	2218.3	2247.5
35°	2111.4	2101.7	2085.8	2127.3	2148.5
37.5°	2008.9	1978.9	1953.3	1978.0	1986.8
40°	1854.3	1831.4	1771.3	1773.9	1761.6
42.5°	1664.4	1647.6	1532.8	1512.4	1478.0
45°	1418.8	1419.7	1283.6	1272.1	1217.4
47.5°	1133.4	1183.8	1065.4	1052.2	970.9
50°	867.5	958.5	885.2	864.0	756.2
52.5°	651.1	784.5	761.5	715.6	567.2
55°	510.6	645.8	662.6	597.2	442.6
57.5°	384.3	531.8	559.2	505.3	341.9
60°	285.3	447.9	455.9	434.6	264.1
62.5°	212.0	380.8	370.2	372.8	196.1
65°	155.5	324.2	294.2	323.3	151.1
67.5°	127.2	280.9	228.8	280.0	122.8
70°	111.3	249.1	170.5	246.5	111.3
72.5°	107.8	228.8	135.2	219.1	108.7
75°	108.7	204.1	102.5	190.8	109.5
77.5°	99.8	167.9	77.7	162.6	104.2
80°	89.2	127.2	59.2	129.0	93.6
82.5°	76.0	92.8	47.7	95.4	78.6
85°	52.1	68.0	44.2	68.0	54.8
87.5°	24.7	40.6	27.4	38.9	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)