

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: P294164

Luminaire Tested: **24GR-LD5-85-A19/156-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294164
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7310.0 lumens
Efficiency: N/A
Efficacy: 114.9 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

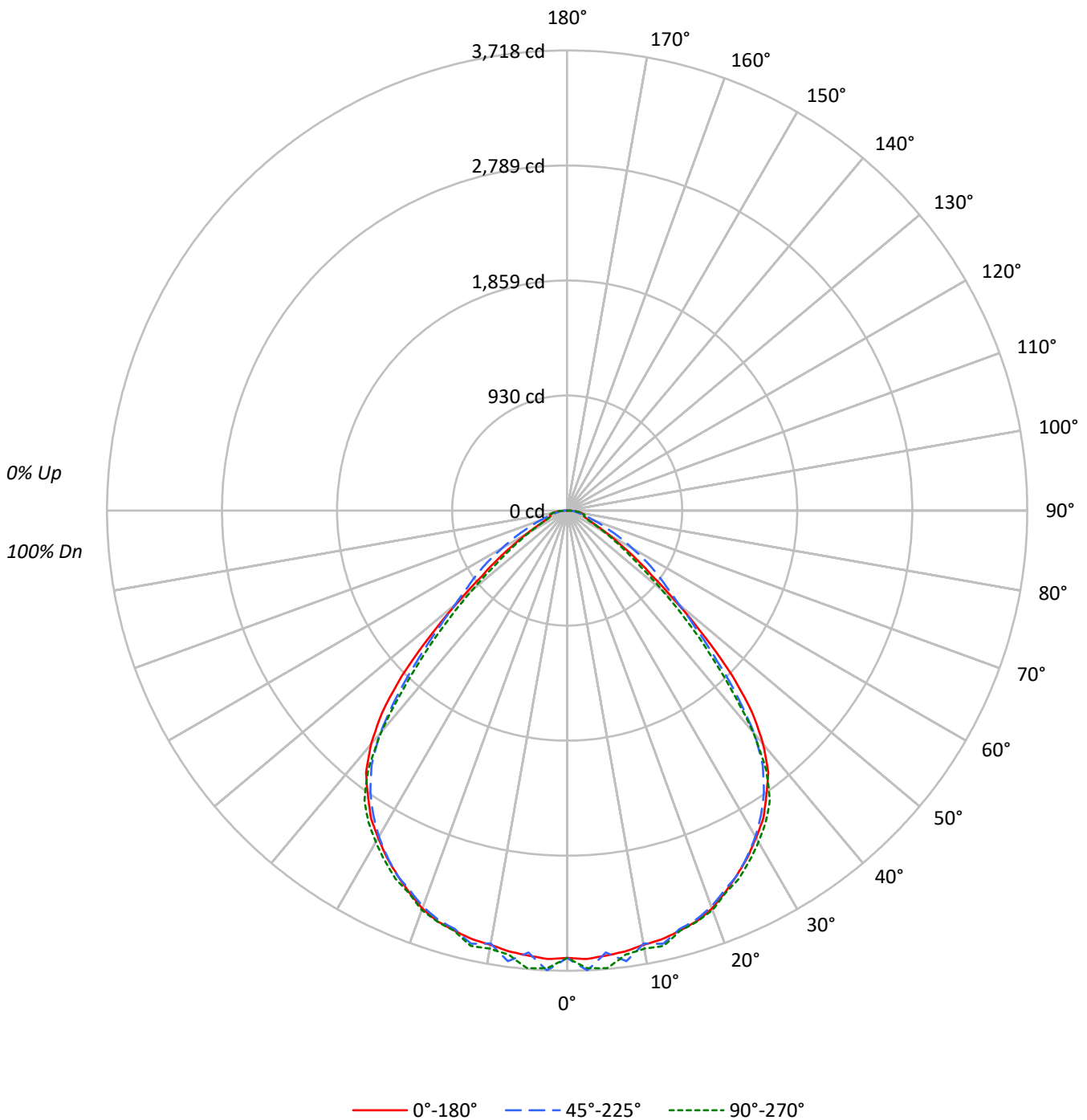
Input Watts (W): 63.612
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4863	4863	4863
5°	4874	4842	5014
10°	4866	4852	4911
15°	4894	4878	4898
20°	4898	4878	4918
25°	4822	4826	4873
30°	4742	4728	4804
35°	4608	4553	4689
40°	4328	4134	4112
45°	3588	3246	3078
50°	2413	2462	2103
55°	1592	2065	1380
60°	1020	1630	945
65°	658	1245	639
70°	582	891	582
75°	751	708	757
80°	919	610	964
85°	1070	906	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	4.7
10°-20°	993.7	13.6
20°-30°	1496.1	20.5
30°-40°	1734.0	23.7
40°-50°	1354.6	18.5
50°-60°	723.3	9.9
60°-70°	371.9	5.1
70°-80°	210.4	2.9
80°-90°	79.9	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°	2835.9	38.8
0°-40°	4569.9	62.5
0°-60°	6647.8	90.9
0°-90°	7310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3615	3615	3615	3615	3615	
5°	3609	3710	3585	3684	3712	343
15°	3514	3536	3502	3524	3516	992
25°	3248	3238	3251	3246	3282	1497
35°	2806	2793	2772	2827	2855	1749
45°	1885	1886	1706	1690	1618	1421
55°	678	858	880	794	588	626
65°	207	431	391	430	201	227
75°	144	271	136	254	146	146
85°	69	90	59	90	73	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3614.6	3614.6	3614.6	3614.6	3614.6
2.5°	3626.3	3692.1	3717.9	3686.2	3700.3
5°	3608.7	3709.7	3585.2	3683.8	3712.0
7.5°	3592.3	3581.7	3672.1	3578.2	3618.1
10°	3561.8	3568.8	3551.2	3618.1	3594.6
12.5°	3547.7	3588.8	3585.2	3551.2	3602.8
15°	3513.6	3535.9	3501.9	3524.2	3516.0
17.5°	3479.6	3469.0	3465.5	3474.9	3483.1
20°	3420.9	3385.7	3406.8	3409.1	3435.0
22.5°	3336.4	3315.2	3319.9	3341.1	3343.4
25°	3248.3	3237.7	3250.7	3246.0	3282.4
27.5°	3156.7	3142.7	3150.9	3168.5	3190.8
30°	3052.3	3048.7	3042.9	3058.1	3092.2
32.5°	2949.0	2920.8	2916.1	2947.8	2986.5
35°	2805.7	2792.8	2771.7	2826.9	2855.0
37.5°	2669.6	2629.6	2595.6	2628.5	2640.2
40°	2464.1	2433.6	2353.8	2357.3	2340.9
42.5°	2211.7	2189.4	2036.8	2009.8	1964.0
45°	1885.4	1886.5	1705.7	1690.5	1617.7
47.5°	1506.2	1573.1	1415.8	1398.2	1290.2
50°	1152.8	1273.7	1176.3	1148.1	1004.9
52.5°	865.2	1042.5	1011.9	950.9	753.7
55°	678.5	858.2	880.5	793.6	588.1
57.5°	510.7	706.7	743.1	671.5	454.3
60°	379.2	595.2	605.8	577.6	351.0
62.5°	281.7	506.0	491.9	495.4	260.6
65°	206.6	430.8	390.9	429.7	200.7
67.5°	169.0	373.3	304.1	372.1	163.2
70°	147.9	331.1	226.6	327.5	147.9
72.5°	143.2	304.1	179.6	291.1	144.4
75°	144.4	271.2	136.2	253.6	145.6
77.5°	132.7	223.1	103.3	216.0	138.5
80°	118.6	169.0	78.7	171.4	124.4
82.5°	101.0	123.3	63.4	126.8	104.5
85°	69.3	90.4	58.7	90.4	72.8
87.5°	32.9	54.0	36.4	51.7	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)