

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: P294018

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294018
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-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: 6083.0 lumens
Efficiency: N/A
Efficacy: 131.9 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

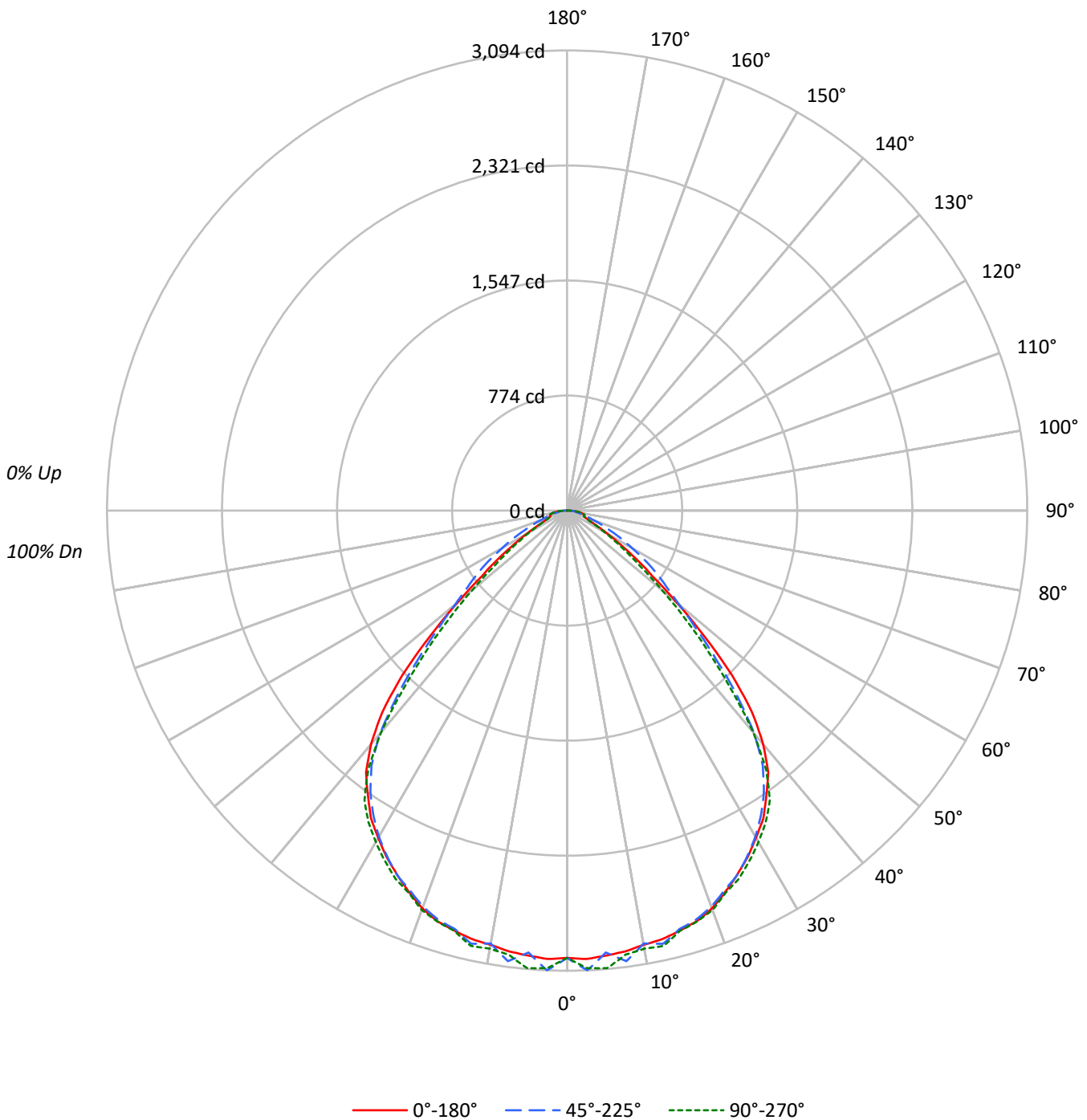
Input Watts (W): 46.128
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4047	4047	4047
5°	4056	4029	4172
10°	4049	4037	4087
15°	4073	4059	4076
20°	4076	4059	4093
25°	4013	4016	4055
30°	3946	3934	3998
35°	3835	3789	3902
40°	3602	3440	3421
45°	2985	2701	2562
50°	2008	2049	1750
55°	1324	1719	1148
60°	849	1357	786
65°	547	1036	532
70°	484	742	484
75°	625	589	630
80°	765	508	803
85°	889	753	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.0	4.7
10°-20°	826.9	13.6
20°-30°	1244.9	20.5
30°-40°	1443.0	23.7
40°-50°	1127.2	18.5
50°-60°	601.9	9.9
60°-70°	309.5	5.1
70°-80°	175.1	2.9
80°-90°	66.5	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°	2359.9	38.8
0°-40°	3802.8	62.5
0°-60°	5531.9	90.9
0°-90°	6083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3008	3008	3008	3008	3008	
5°	3003	3087	2983	3066	3089	286
15°	2924	2942	2914	2933	2926	826
25°	2703	2694	2705	2701	2731	1246
35°	2335	2324	2306	2352	2376	1456
45°	1569	1570	1419	1407	1346	1182
55°	565	714	733	660	489	521
65°	172	358	325	358	167	189
75°	120	226	113	211	121	122
85°	58	75	49	75	61	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3007.9	3007.9	3007.9	3007.9	3007.9
2.5°	3017.6	3072.3	3093.8	3067.5	3079.2
5°	3003.0	3087.0	2983.4	3065.5	3089.0
7.5°	2989.3	2980.5	3055.7	2977.6	3010.8
10°	2963.9	2969.8	2955.1	3010.8	2991.3
12.5°	2952.2	2986.4	2983.4	2955.1	2998.1
15°	2923.9	2942.4	2914.1	2932.6	2925.8
17.5°	2895.5	2886.7	2883.8	2891.6	2898.5
20°	2846.7	2817.4	2835.0	2836.9	2858.4
22.5°	2776.3	2758.8	2762.7	2780.3	2782.2
25°	2703.1	2694.3	2705.0	2701.1	2731.4
27.5°	2626.9	2615.2	2622.0	2636.6	2655.2
30°	2539.9	2537.0	2532.1	2544.8	2573.1
32.5°	2454.0	2430.5	2426.6	2453.0	2485.2
35°	2334.8	2324.0	2306.5	2352.4	2375.8
37.5°	2221.5	2188.3	2159.9	2187.3	2197.0
40°	2050.5	2025.1	1958.7	1961.6	1947.9
42.5°	1840.5	1821.9	1694.9	1672.4	1634.4
45°	1568.9	1569.9	1419.4	1406.7	1346.2
47.5°	1253.4	1309.0	1178.1	1163.5	1073.6
50°	959.3	1059.9	978.9	955.4	836.2
52.5°	720.0	867.5	842.1	791.3	627.2
55°	564.6	714.1	732.7	660.4	489.4
57.5°	425.0	588.1	618.4	558.8	378.1
60°	315.5	495.3	504.1	480.6	292.1
62.5°	234.5	421.0	409.3	412.3	216.9
65°	171.9	358.5	325.3	357.5	167.0
67.5°	140.7	310.7	253.0	309.7	135.8
70°	123.1	275.5	188.5	272.6	123.1
72.5°	119.2	253.0	149.5	242.3	120.2
75°	120.2	225.7	113.3	211.0	121.1
77.5°	110.4	185.6	86.0	179.7	115.3
80°	98.7	140.7	65.5	142.6	103.6
82.5°	84.0	102.6	52.8	105.5	86.9
85°	57.6	75.2	48.8	75.2	60.6
87.5°	27.4	44.9	30.3	43.0	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)