

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: P294023

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294023
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6493.0 lumens
Efficiency: N/A
Efficacy: 137.4 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

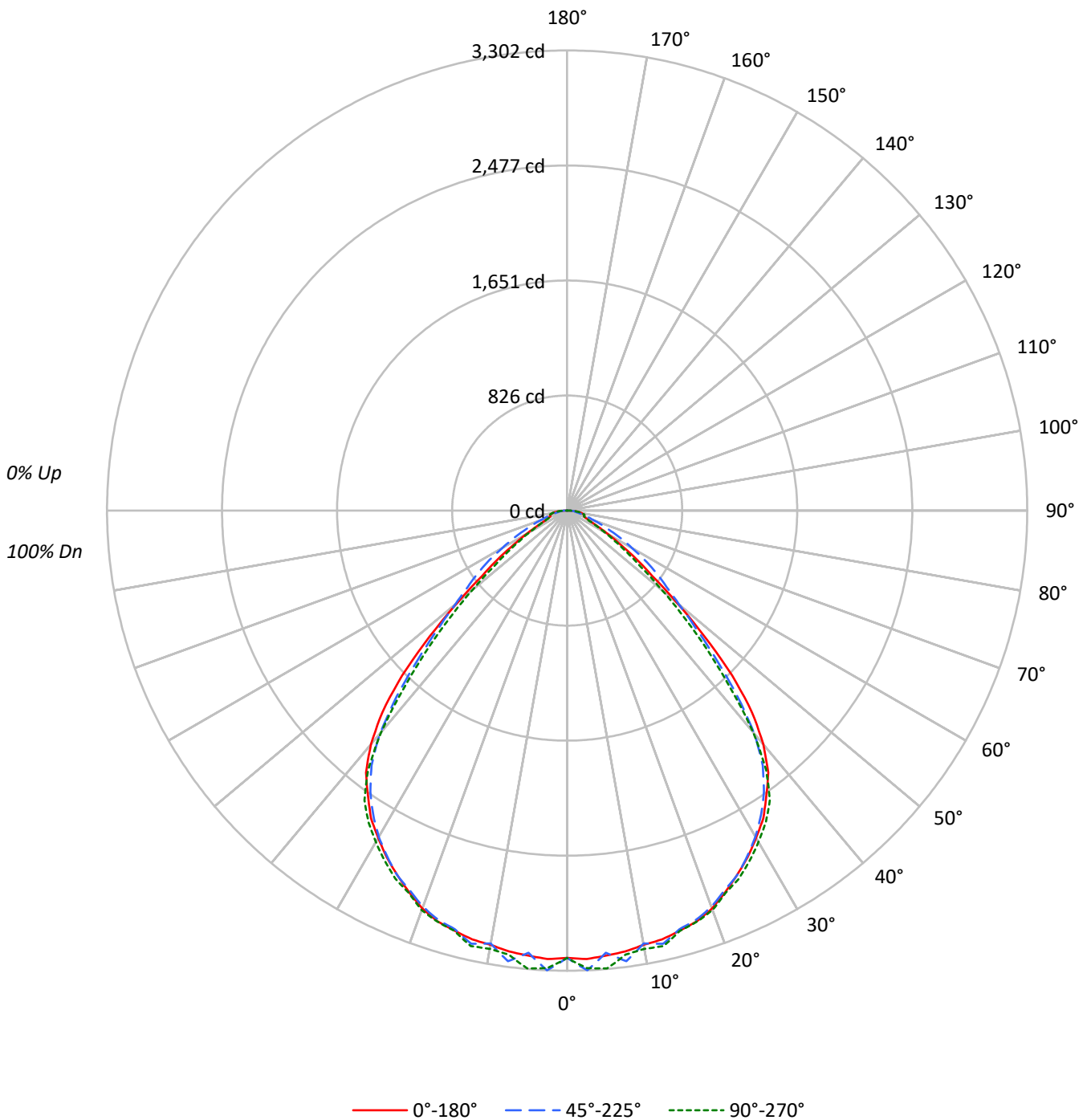
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4320	4320	4320
5°	4329	4301	4453
10°	4322	4310	4362
15°	4347	4333	4350
20°	4351	4333	4369
25°	4283	4287	4328
30°	4212	4199	4267
35°	4094	4044	4165
40°	3844	3672	3652
45°	3186	2883	2734
50°	2143	2187	1868
55°	1414	1835	1225
60°	906	1448	839
65°	584	1105	568
70°	517	792	517
75°	667	629	672
80°	816	542	856
85°	949	804	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.4	4.7
10°-20°	882.7	13.6
20°-30°	1328.9	20.5
30°-40°	1540.2	23.7
40°-50°	1203.2	18.5
50°-60°	642.4	9.9
60°-70°	330.4	5.1
70°-80°	186.9	2.9
80°-90°	71.0	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°	2518.9	38.8
0°-40°	4059.1	62.5
0°-60°	5904.8	90.9
0°-90°	6493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3211	3211	3211	3211	3211	
5°	3205	3295	3184	3272	3297	305
15°	3121	3141	3110	3130	3123	881
25°	2885	2876	2887	2883	2916	1330
35°	2492	2481	2462	2511	2536	1554
45°	1675	1676	1515	1502	1437	1262
55°	603	762	782	705	522	556
65°	184	383	347	382	178	202
75°	128	241	121	225	129	130
85°	62	80	52	80	65	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3210.6	3210.6	3210.6	3210.6	3210.6
2.5°	3221.0	3279.4	3302.4	3274.2	3286.7
5°	3205.4	3295.1	3184.5	3272.1	3297.1
7.5°	3190.8	3181.4	3261.7	3178.3	3213.7
10°	3163.7	3169.9	3154.3	3213.7	3192.9
12.5°	3151.2	3187.7	3184.5	3154.3	3200.2
15°	3120.9	3140.7	3110.5	3130.3	3123.0
17.5°	3090.7	3081.3	3078.2	3086.5	3093.8
20°	3038.5	3007.3	3026.0	3028.1	3051.1
22.5°	2963.5	2944.7	2948.9	2967.6	2969.7
25°	2885.3	2875.9	2887.4	2883.2	2915.5
27.5°	2803.9	2791.4	2798.7	2814.4	2834.2
30°	2711.1	2708.0	2702.8	2716.3	2746.6
32.5°	2619.4	2594.3	2590.2	2618.3	2652.7
35°	2492.2	2480.7	2461.9	2510.9	2535.9
37.5°	2371.2	2335.7	2305.5	2334.7	2345.1
40°	2188.7	2161.6	2090.7	2093.8	2079.2
42.5°	1964.5	1944.7	1809.2	1785.2	1744.5
45°	1674.6	1675.7	1515.1	1501.5	1436.9
47.5°	1337.8	1397.3	1257.5	1241.9	1146.0
50°	1024.0	1131.4	1044.8	1019.8	892.6
52.5°	768.5	926.0	898.8	844.6	669.4
55°	602.7	762.2	782.1	704.9	522.4
57.5°	453.6	627.7	660.1	596.4	403.5
60°	336.8	528.7	538.1	513.0	311.8
62.5°	250.3	449.4	436.9	440.0	231.5
65°	183.5	382.7	347.2	381.6	178.3
67.5°	150.2	331.6	270.1	330.5	144.9
70°	131.4	294.1	201.2	290.9	131.4
72.5°	127.2	270.1	159.5	258.6	128.3
75°	128.3	240.9	121.0	225.2	129.3
77.5°	117.8	198.1	91.8	191.9	123.0
80°	105.3	150.2	69.9	152.2	110.5
82.5°	89.7	109.5	56.3	112.6	92.8
85°	61.5	80.3	52.1	80.3	64.6
87.5°	29.2	48.0	32.3	45.9	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)