

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: P294158

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294158
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-LD5-72-A19/156-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6634.0 lumens
Efficiency: N/A
Efficacy: 122.6 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

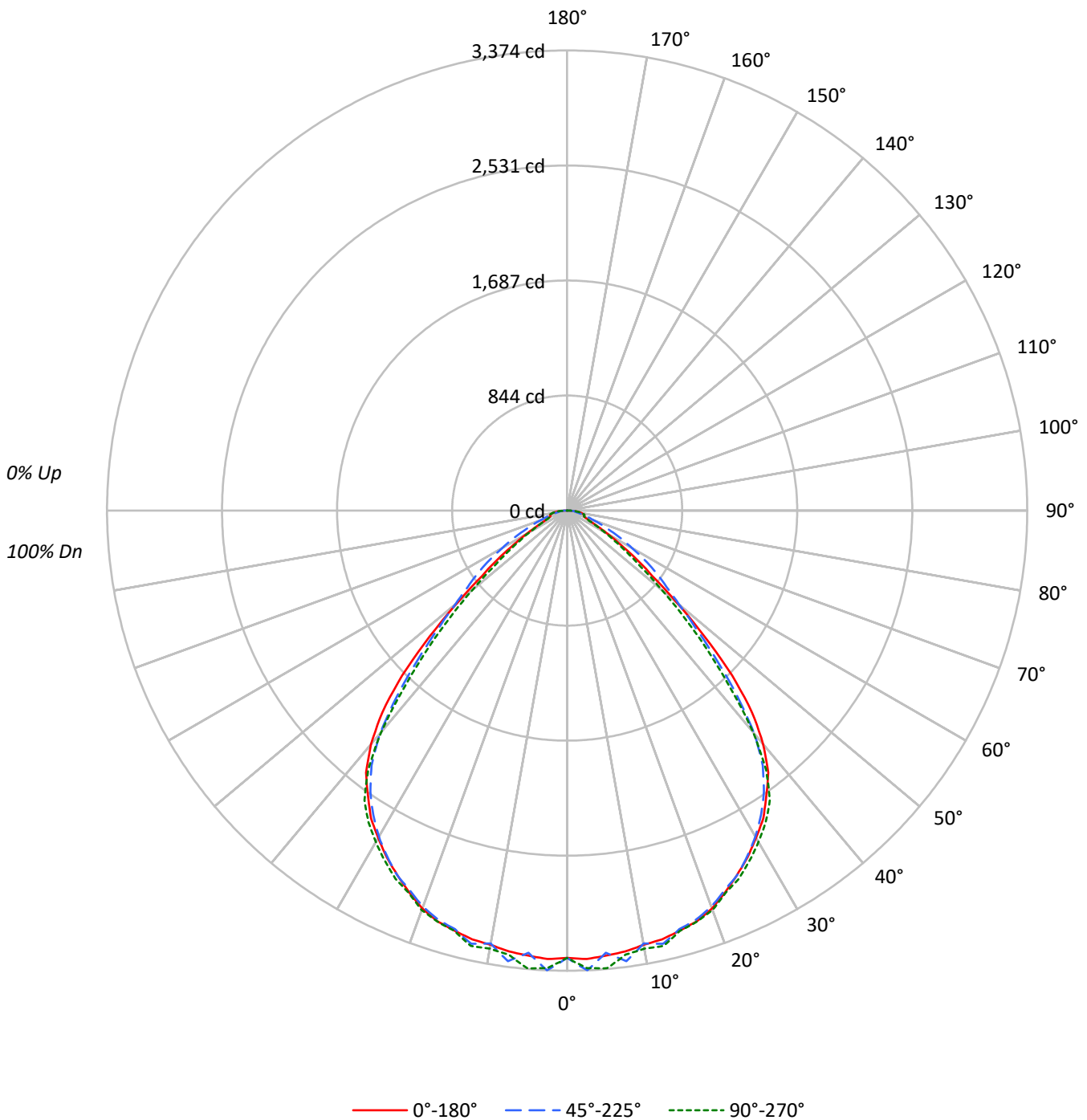
Input Watts (W): 54.126
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4414	4414	4414
5°	4423	4395	4550
10°	4416	4403	4457
15°	4442	4427	4445
20°	4445	4427	4463
25°	4376	4380	4422
30°	4304	4290	4360
35°	4182	4132	4256
40°	3928	3752	3731
45°	3256	2946	2794
50°	2190	2235	1909
55°	1445	1874	1252
60°	926	1479	857
65°	597	1130	580
70°	528	809	528
75°	681	643	687
80°	834	553	875
85°	971	823	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	4.7
10°-20°	901.8	13.6
20°-30°	1357.7	20.5
30°-40°	1573.7	23.7
40°-50°	1229.3	18.5
50°-60°	656.4	9.9
60°-70°	337.5	5.1
70°-80°	190.9	2.9
80°-90°	72.5	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°	2573.6	38.8
0°-40°	4147.3	62.5
0°-60°	6033.0	90.9
0°-90°	6634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3280	3280	3280	3280	3280	
5°	3275	3367	3254	3343	3369	311
15°	3189	3209	3178	3198	3191	901
25°	2948	2938	2950	2946	2979	1358
35°	2546	2535	2515	2565	2591	1587
45°	1711	1712	1548	1534	1468	1289
55°	616	779	799	720	534	568
65°	188	391	355	390	182	206
75°	131	246	124	230	132	133
85°	63	82	53	82	66	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3280.3	3280.3	3280.3	3280.3	3280.3
2.5°	3291.0	3350.6	3374.1	3345.3	3358.1
5°	3275.0	3366.6	3253.7	3343.2	3368.7
7.5°	3260.1	3250.5	3332.5	3247.3	3283.5
10°	3232.4	3238.8	3222.8	3283.5	3262.2
12.5°	3219.6	3256.9	3253.7	3222.8	3269.7
15°	3188.7	3208.9	3178.0	3198.3	3190.8
17.5°	3157.8	3148.2	3145.0	3153.5	3161.0
20°	3104.5	3072.6	3091.7	3093.9	3117.3
22.5°	3027.8	3008.6	3012.9	3032.1	3034.2
25°	2947.9	2938.3	2950.1	2945.8	2978.8
27.5°	2864.8	2852.0	2859.5	2875.5	2895.7
30°	2770.0	2766.8	2761.5	2775.3	2806.2
32.5°	2676.2	2650.7	2646.4	2675.2	2710.3
35°	2546.3	2534.6	2515.4	2565.4	2591.0
37.5°	2422.7	2386.5	2355.6	2385.4	2396.1
40°	2236.2	2208.5	2136.1	2139.3	2124.4
42.5°	2007.2	1986.9	1848.4	1823.9	1782.4
45°	1711.0	1712.1	1548.0	1534.2	1468.1
47.5°	1366.9	1427.6	1284.9	1268.9	1170.9
50°	1046.2	1155.9	1067.5	1041.9	912.0
52.5°	785.2	946.1	918.4	863.0	684.0
55°	615.8	778.8	799.0	720.2	533.8
57.5°	463.4	641.4	674.4	609.4	412.3
60°	344.1	540.2	549.7	524.2	318.6
62.5°	255.7	459.2	446.4	449.6	236.5
65°	187.5	391.0	354.8	389.9	182.2
67.5°	153.4	338.8	275.9	337.7	148.1
70°	134.2	300.4	205.6	297.2	134.2
72.5°	130.0	275.9	163.0	264.2	131.0
75°	131.0	246.1	123.6	230.1	132.1
77.5°	120.4	202.4	93.8	196.0	125.7
80°	107.6	153.4	71.4	155.5	112.9
82.5°	91.6	111.9	57.5	115.1	94.8
85°	62.9	82.0	53.3	82.0	66.1
87.5°	29.8	49.0	33.0	46.9	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)