

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: P294157

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294157
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6605.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

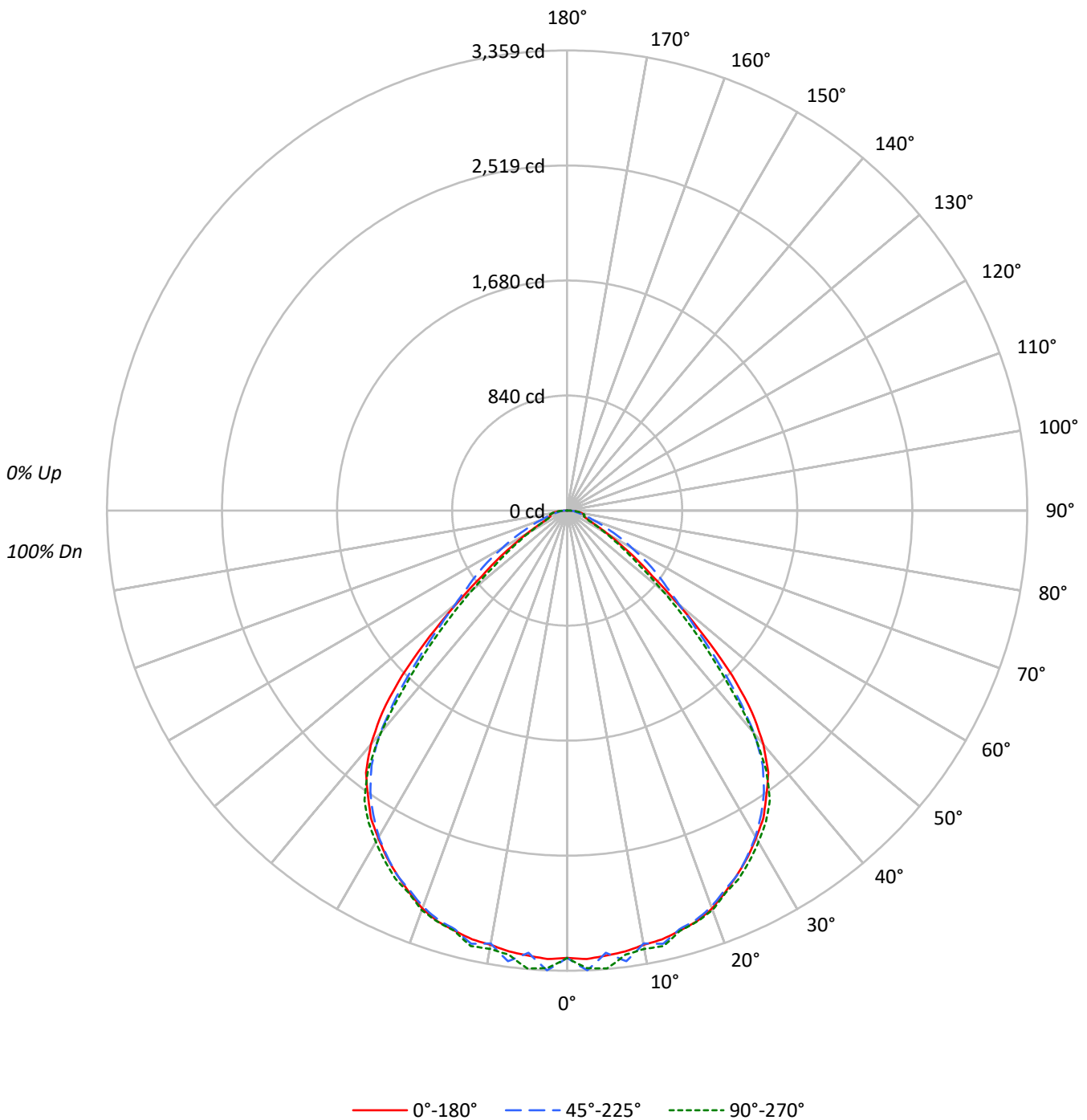
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4394	4394	4394
5°	4404	4375	4530
10°	4397	4384	4438
15°	4422	4408	4425
20°	4426	4407	4444
25°	4357	4361	4403
30°	4285	4272	4341
35°	4164	4114	4237
40°	3911	3736	3715
45°	3241	2933	2781
50°	2180	2225	1901
55°	1438	1866	1247
60°	922	1473	854
65°	594	1124	578
70°	526	805	526
75°	678	639	684
80°	830	551	871
85°	966	818	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.7	4.7
10°-20°	897.9	13.6
20°-30°	1351.8	20.5
30°-40°	1566.8	23.7
40°-50°	1223.9	18.5
50°-60°	653.5	9.9
60°-70°	336.1	5.1
70°-80°	190.1	2.9
80°-90°	72.2	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°	2562.4	38.8
0°-40°	4129.2	62.5
0°-60°	6006.6	90.9
0°-90°	6605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3266	3266	3266	3266	3266	
5°	3261	3352	3240	3329	3354	310
15°	3175	3195	3164	3184	3177	897
25°	2935	2926	2937	2933	2966	1352
35°	2535	2524	2504	2554	2580	1580
45°	1704	1705	1541	1527	1462	1284
55°	613	775	796	717	531	566
65°	187	389	353	388	181	205
75°	130	245	123	229	132	132
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°	3266.0	3266.0	3266.0	3266.0	3266.0
2.5°	3276.6	3336.0	3359.3	3330.7	3343.4
5°	3260.7	3351.9	3239.5	3328.6	3354.0
7.5°	3245.8	3236.3	3318.0	3233.1	3269.2
10°	3218.3	3224.6	3208.7	3269.2	3248.0
12.5°	3205.5	3242.6	3239.5	3208.7	3255.4
15°	3174.8	3194.9	3164.2	3184.3	3176.9
17.5°	3144.0	3134.5	3131.3	3139.8	3147.2
20°	3091.0	3059.1	3078.2	3080.4	3103.7
22.5°	3014.6	2995.5	2999.7	3018.8	3021.0
25°	2935.0	2925.5	2937.2	2932.9	2965.8
27.5°	2852.3	2839.6	2847.0	2862.9	2883.1
30°	2757.9	2754.7	2749.4	2763.2	2794.0
32.5°	2664.6	2639.1	2634.8	2663.5	2698.5
35°	2535.1	2523.5	2504.4	2554.2	2579.7
37.5°	2412.1	2376.0	2345.3	2375.0	2385.6
40°	2226.5	2198.9	2126.8	2129.9	2115.1
42.5°	1998.4	1978.3	1840.4	1816.0	1774.6
45°	1703.5	1704.6	1541.2	1527.4	1461.7
47.5°	1360.9	1421.4	1279.2	1263.3	1165.7
50°	1041.6	1150.9	1062.9	1037.4	908.0
52.5°	781.8	941.9	914.3	859.2	681.0
55°	613.1	775.4	795.5	717.1	531.4
57.5°	461.4	638.6	671.4	606.7	410.5
60°	342.6	537.8	547.3	521.9	317.2
62.5°	254.6	457.2	444.4	447.6	235.5
65°	186.7	389.3	353.2	388.2	181.4
67.5°	152.7	337.3	274.7	336.3	147.4
70°	133.7	299.1	204.7	295.9	133.7
72.5°	129.4	274.7	162.3	263.1	130.5
75°	130.5	245.0	123.0	229.1	131.5
77.5°	119.9	201.5	93.3	195.2	125.2
80°	107.1	152.7	71.1	154.9	112.4
82.5°	91.2	111.4	57.3	114.6	94.4
85°	62.6	81.7	53.0	81.7	65.8
87.5°	29.7	48.8	32.9	46.7	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)