

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: P294152

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294152
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5734.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

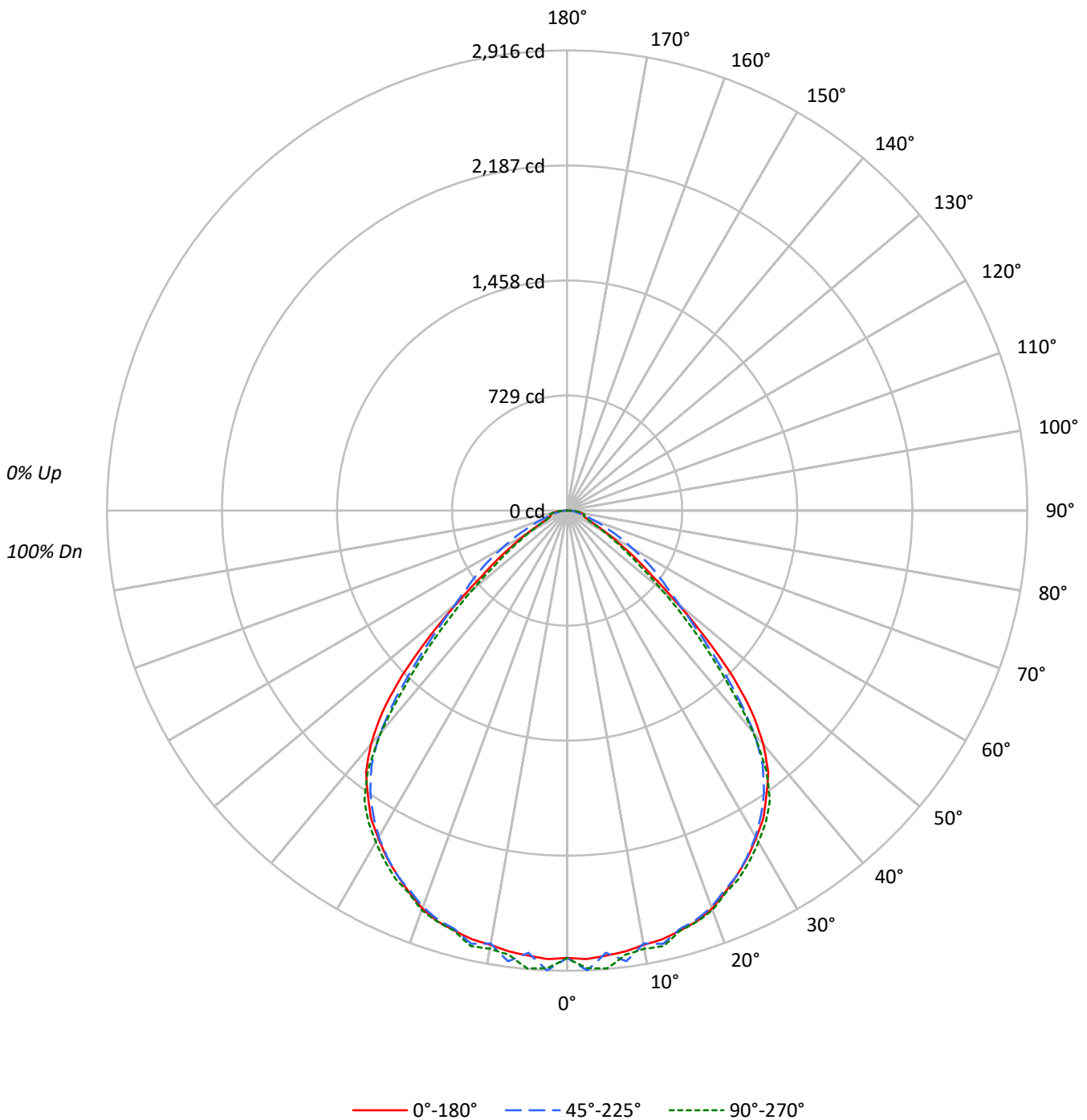
Input Watts (W): 52.08
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3815	3815	3815
5°	3823	3798	3933
10°	3817	3806	3852
15°	3839	3826	3842
20°	3842	3826	3858
25°	3783	3785	3822
30°	3720	3708	3768
35°	3615	3571	3678
40°	3395	3243	3225
45°	2814	2546	2414
50°	1893	1931	1650
55°	1249	1620	1082
60°	800	1279	741
65°	516	976	501
70°	456	699	456
75°	589	555	594
80°	721	478	756
85°	838	710	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	4.7
10°-20°	779.5	13.6
20°-30°	1173.5	20.5
30°-40°	1360.2	23.7
40°-50°	1062.5	18.5
50°-60°	567.4	9.9
60°-70°	291.7	5.1
70°-80°	165.0	2.9
80°-90°	62.7	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°	2224.5	38.8
0°-40°	3584.7	62.5
0°-60°	5214.5	90.9
0°-90°	5734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2835	2835	2835	2835	2835	
5°	2831	2910	2812	2890	2912	269
15°	2756	2774	2747	2764	2758	778
25°	2548	2540	2550	2546	2575	1174
35°	2201	2191	2174	2217	2240	1372
45°	1479	1480	1338	1326	1269	1114
55°	532	673	691	622	461	491
65°	162	338	307	337	158	178
75°	113	213	107	199	114	115
85°	54	71	46	71	57	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2835.3	2835.3	2835.3	2835.3	2835.3
2.5°	2844.5	2896.1	2916.3	2891.5	2902.5
5°	2830.7	2909.9	2812.3	2889.6	2911.7
7.5°	2817.8	2809.5	2880.4	2806.8	2838.1
10°	2793.9	2799.4	2785.6	2838.1	2819.6
12.5°	2782.8	2815.0	2812.3	2785.6	2826.1
15°	2756.1	2773.6	2746.9	2764.4	2757.9
17.5°	2729.4	2721.1	2718.4	2725.7	2732.2
20°	2683.4	2655.7	2672.3	2674.1	2694.4
22.5°	2617.1	2600.5	2604.2	2620.7	2622.6
25°	2548.0	2539.7	2549.8	2546.2	2574.7
27.5°	2476.2	2465.1	2471.6	2485.4	2502.9
30°	2394.2	2391.4	2386.8	2398.8	2425.5
32.5°	2313.2	2291.1	2287.4	2312.3	2342.6
35°	2200.8	2190.7	2174.1	2217.4	2239.5
37.5°	2094.0	2062.7	2036.0	2061.8	2071.0
40°	1932.9	1908.9	1846.3	1849.1	1836.2
42.5°	1734.9	1717.4	1597.7	1576.5	1540.6
45°	1478.9	1479.8	1338.0	1326.0	1268.9
47.5°	1181.5	1233.9	1110.5	1096.7	1012.0
50°	904.3	999.1	922.7	900.6	788.2
52.5°	678.7	817.7	793.8	745.9	591.2
55°	532.3	673.1	690.6	622.5	461.3
57.5°	400.6	554.4	582.9	526.7	356.4
60°	297.4	466.9	475.2	453.1	275.3
62.5°	221.0	396.9	385.8	388.6	204.4
65°	162.1	338.0	306.6	337.0	157.5
67.5°	132.6	292.8	238.5	291.9	128.0
70°	116.0	259.7	177.7	256.9	116.0
72.5°	112.3	238.5	140.9	228.4	113.3
75°	113.3	212.7	106.8	198.9	114.2
77.5°	104.1	175.0	81.0	169.4	108.7
80°	93.0	132.6	61.7	134.4	97.6
82.5°	79.2	96.7	49.7	99.5	82.0
85°	54.3	70.9	46.0	70.9	57.1
87.5°	25.8	42.4	28.5	40.5	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)