

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: P294147

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294147
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-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5757.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

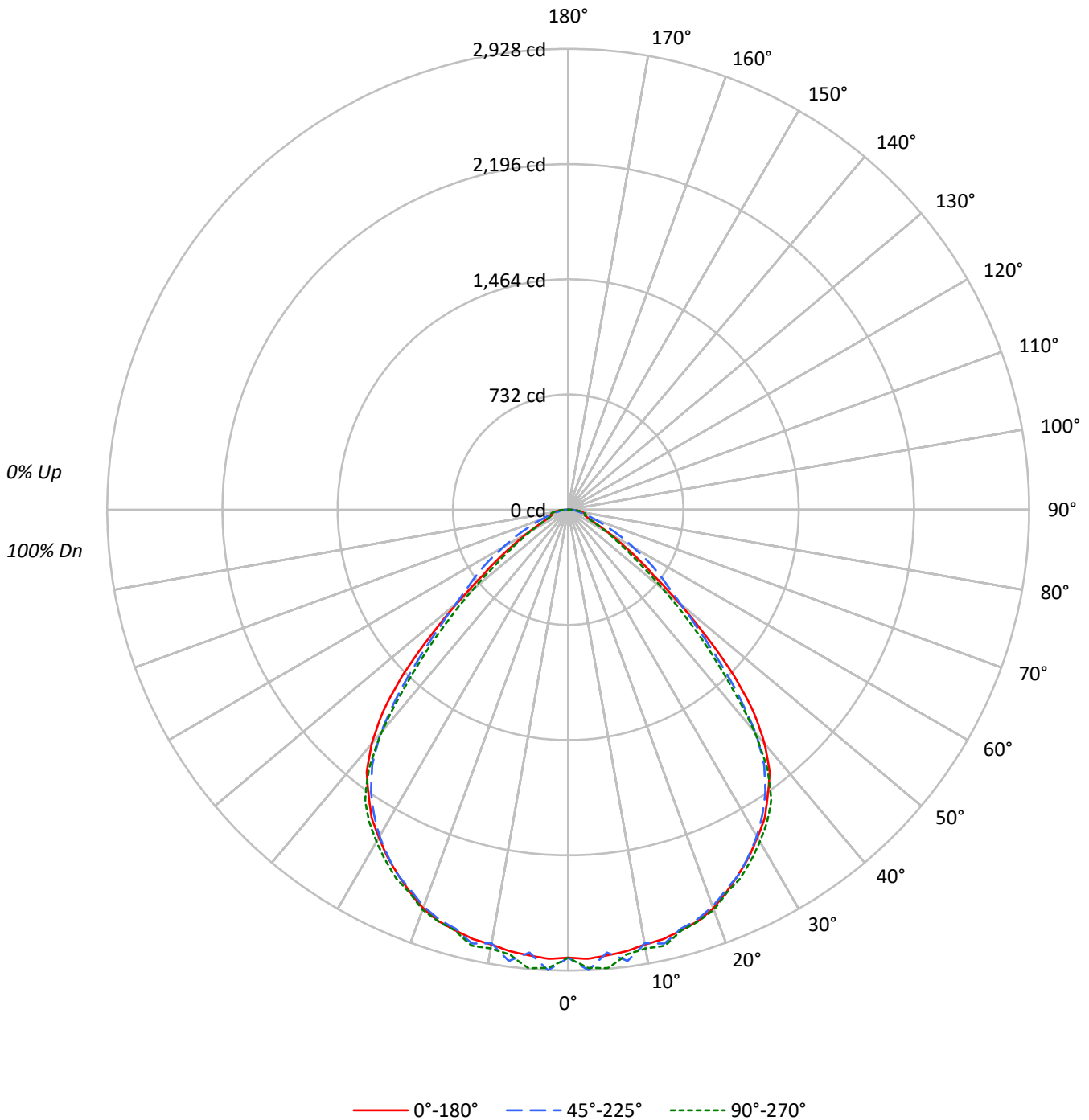
Input Watts (W): 47.058
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3830	3830	3830
5°	3838	3814	3948
10°	3832	3821	3868
15°	3855	3842	3857
20°	3858	3842	3873
25°	3798	3801	3838
30°	3735	3723	3783
35°	3630	3585	3693
40°	3408	3256	3238
45°	2825	2556	2424
50°	1900	1939	1657
55°	1254	1627	1087
60°	804	1284	744
65°	518	980	503
70°	458	702	458
75°	591	557	596
80°	724	480	759
85°	841	713	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.6	4.7
10°-20°	782.6	13.6
20°-30°	1178.2	20.5
30°-40°	1365.6	23.7
40°-50°	1066.8	18.5
50°-60°	569.6	9.9
60°-70°	292.9	5.1
70°-80°	165.7	2.9
80°-90°	62.9	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°	2233.4	38.8
0°-40°	3599.0	62.5
0°-60°	5235.4	90.9
0°-90°	5757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2847	2847	2847	2847	2847	
5°	2842	2922	2824	2901	2923	270
15°	2767	2785	2758	2776	2769	782
25°	2558	2550	2560	2556	2585	1179
35°	2210	2200	2183	2226	2248	1378
45°	1485	1486	1343	1331	1274	1119
55°	534	676	693	625	463	493
65°	163	339	308	338	158	179
75°	114	214	107	200	115	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°	2846.7	2846.7	2846.7	2846.7	2846.7
2.5°	2855.9	2907.7	2928.0	2903.1	2914.2
5°	2842.0	2921.6	2823.6	2901.2	2923.4
7.5°	2829.1	2820.8	2892.0	2818.0	2849.4
10°	2805.1	2810.6	2796.7	2849.4	2831.0
12.5°	2794.0	2826.3	2823.6	2796.7	2837.4
15°	2767.2	2784.7	2757.9	2775.5	2769.0
17.5°	2740.3	2732.0	2729.3	2736.7	2743.1
20°	2694.1	2666.4	2683.0	2684.9	2705.2
22.5°	2627.6	2610.9	2614.6	2631.3	2633.1
25°	2558.2	2549.9	2560.1	2556.4	2585.0
27.5°	2486.1	2475.0	2481.5	2495.3	2512.9
30°	2403.8	2401.0	2396.4	2408.4	2435.2
32.5°	2322.5	2300.3	2296.6	2321.5	2352.0
35°	2209.7	2199.5	2182.8	2226.3	2248.5
37.5°	2102.4	2071.0	2044.2	2070.1	2079.3
40°	1940.6	1916.6	1853.7	1856.5	1843.5
42.5°	1741.8	1724.3	1604.1	1582.8	1546.8
45°	1484.8	1485.7	1343.4	1331.3	1274.0
47.5°	1186.2	1238.9	1115.0	1101.1	1016.1
50°	907.9	1003.1	926.4	904.2	791.4
52.5°	681.4	821.0	797.0	748.9	593.6
55°	534.4	675.8	693.4	625.0	463.2
57.5°	402.2	556.6	585.2	528.8	357.8
60°	298.6	468.7	477.1	454.9	276.4
62.5°	221.9	398.5	387.4	390.2	205.2
65°	162.7	339.3	307.9	338.4	158.1
67.5°	133.1	294.0	239.5	293.1	128.5
70°	116.5	260.7	178.4	257.9	116.5
72.5°	112.8	239.5	141.5	229.3	113.7
75°	113.7	213.6	107.2	199.7	114.6
77.5°	104.5	175.7	81.4	170.1	109.1
80°	93.4	133.1	61.9	135.0	98.0
82.5°	79.5	97.1	49.9	99.9	82.3
85°	54.5	71.2	46.2	71.2	57.3
87.5°	25.9	42.5	28.7	40.7	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)