

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: P294006

Luminaire Tested: **24GR-LD5-48-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294006
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-LD5-48-A19/156-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4933.0 lumens
Efficiency: N/A
Efficacy: 143.7 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

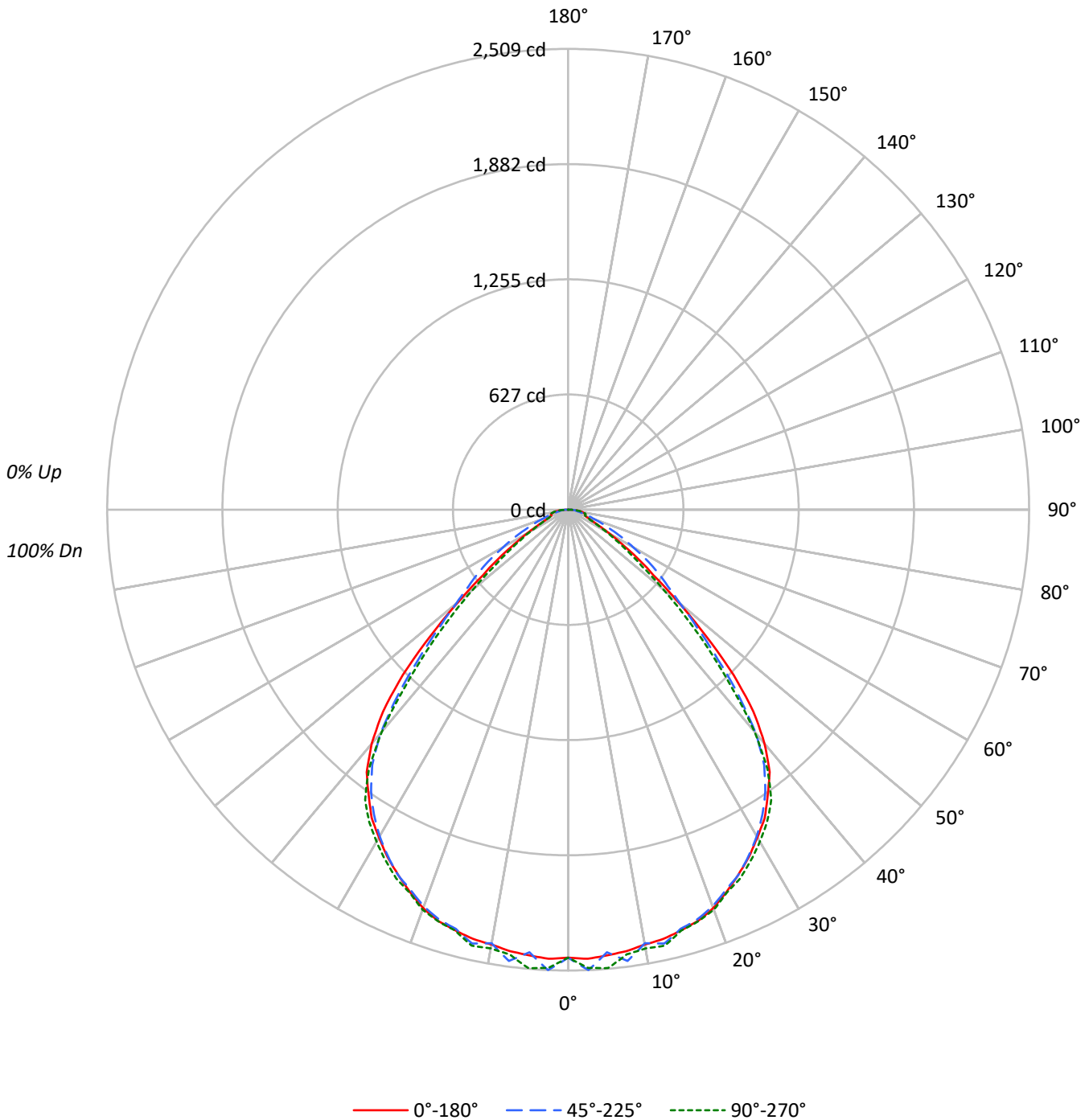
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3282	3282	3282
5°	3289	3268	3383
10°	3284	3274	3314
15°	3303	3292	3305
20°	3305	3292	3319
25°	3254	3257	3288
30°	3200	3190	3242
35°	3110	3072	3165
40°	2921	2790	2775
45°	2421	2190	2077
50°	1629	1662	1419
55°	1074	1394	931
60°	689	1100	637
65°	444	840	431
70°	393	602	393
75°	506	478	510
80°	620	411	651
85°	721	611	758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	4.7
10°-20°	670.6	13.6
20°-30°	1009.6	20.5
30°-40°	1170.2	23.7
40°-50°	914.1	18.5
50°-60°	488.1	9.9
60°-70°	251.0	5.1
70°-80°	142.0	2.9
80°-90°	53.9	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°	1913.7	38.8
0°-40°	3083.9	62.5
0°-60°	4486.1	90.9
0°-90°	4933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2439	2439	2439	2439	2439	
5°	2435	2503	2419	2486	2505	232
15°	2371	2386	2363	2378	2373	670
25°	2192	2185	2194	2190	2215	1010
35°	1893	1885	1870	1908	1927	1180
45°	1272	1273	1151	1141	1092	959
55°	458	579	594	536	397	423
65°	139	291	264	290	136	153
75°	97	183	92	171	98	99
85°	47	61	40	61	49	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2439.2	2439.2	2439.2	2439.2	2439.2
2.5°	2447.1	2491.5	2508.9	2487.6	2497.1
5°	2435.3	2503.4	2419.4	2486.0	2505.0
7.5°	2424.2	2417.0	2478.0	2414.7	2441.6
10°	2403.6	2408.3	2396.4	2441.6	2425.8
12.5°	2394.1	2421.8	2419.4	2396.4	2431.3
15°	2371.1	2386.1	2363.2	2378.2	2372.7
17.5°	2348.1	2341.0	2338.6	2345.0	2350.5
20°	2308.5	2284.7	2299.0	2300.6	2318.0
22.5°	2251.5	2237.2	2240.4	2254.6	2256.2
25°	2192.1	2184.9	2193.6	2190.5	2215.0
27.5°	2130.3	2120.8	2126.3	2138.2	2153.2
30°	2059.8	2057.4	2053.4	2063.7	2086.7
32.5°	1990.0	1971.0	1967.9	1989.2	2015.4
35°	1893.4	1884.7	1870.4	1907.7	1926.7
37.5°	1801.5	1774.6	1751.6	1773.8	1781.7
40°	1662.9	1642.3	1588.4	1590.8	1579.7
42.5°	1492.5	1477.5	1374.5	1356.3	1325.4
45°	1272.3	1273.1	1151.1	1140.8	1091.7
47.5°	1016.4	1061.6	955.4	943.5	870.6
50°	778.0	859.6	793.8	774.8	678.1
52.5°	583.9	703.5	682.9	641.7	508.6
55°	457.9	579.1	594.2	535.5	396.9
57.5°	344.6	476.9	501.5	453.1	306.6
60°	255.9	401.7	408.8	389.8	236.9
62.5°	190.1	341.4	331.9	334.3	175.9
65°	139.4	290.7	263.8	290.0	135.5
67.5°	114.1	251.9	205.2	251.1	110.1
70°	99.8	223.4	152.9	221.0	99.8
72.5°	96.7	205.2	121.2	196.5	97.4
75°	97.4	183.0	91.9	171.1	98.2
77.5°	89.5	150.5	69.7	145.8	93.5
80°	80.0	114.1	53.1	115.7	84.0
82.5°	68.1	83.2	42.8	85.6	70.5
85°	46.7	61.0	39.6	61.0	49.1
87.5°	22.2	36.4	24.6	34.9	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)