

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: P476257

Luminaire Tested: **14GR-LD5-50-A19/156-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476257
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-A19/156-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A19/156 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4812.8 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.2
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

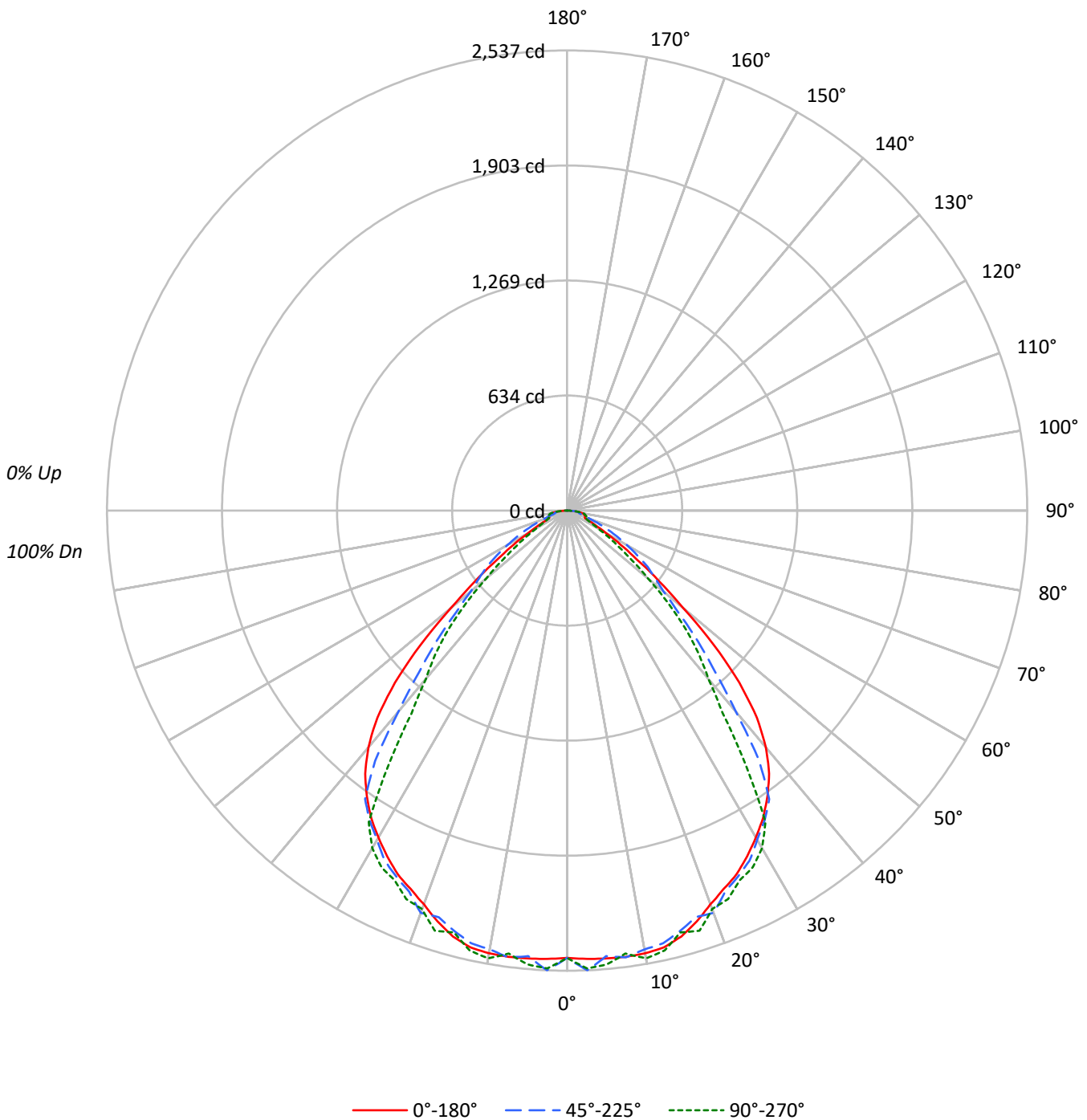
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	43	39	49	43	38	48	43	38	48	42	38	36
10	60	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6637	6637	6637
5°	6696	6662	6785
10°	6774	6712	6849
15°	6773	6688	6710
20°	6615	6760	6695
25°	6567	6612	6680
30°	6466	6513	6677
35°	6323	6381	5661
40°	5991	5080	4257
45°	5110	3873	3528
50°	3491	2900	2436
55°	2198	2541	1619
60°	1329	2034	1044
65°	834	1572	802
70°	832	1050	852
75°	1048	838	1100
80°	1367	1015	1444
85°	1321	1399	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.0	4.9
10°-20°	682.0	14.2
20°-30°	1029.4	21.4
30°-40°	1148.1	23.9
40°-50°	834.9	17.3
50°-60°	457.9	9.5
60°-70°	232.8	4.8
70°-80°	136.9	2.8
80°-90°	52.9	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°	1949.3	40.5
0°-40°	3097.4	64.4
0°-60°	4390.2	91.2
0°-90°	4812.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4812.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2466	2466	2466	2466	2466	
5°	2479	2532	2466	2512	2512	237
15°	2431	2421	2401	2451	2408	683
25°	2212	2212	2227	2270	2250	1017
35°	1925	1922	1942	1811	1723	1198
45°	1343	1240	1018	945	927	1009
55°	469	579	542	484	345	442
65°	131	280	247	254	126	146
75°	101	179	81	161	106	105
85°	43	55	45	58	45	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2466.3	2466.3	2466.3	2466.3	2466.3
2.5°	2473.9	2524.3	2536.9	2536.9	2526.8
5°	2478.9	2531.8	2466.3	2511.7	2511.7
7.5°	2481.5	2489.0	2484.0	2494.0	2463.8
10°	2478.9	2461.3	2456.3	2519.2	2506.6
12.5°	2466.3	2398.3	2443.7	2423.5	2484.0
15°	2431.1	2421.0	2400.8	2451.2	2408.4
17.5°	2375.6	2380.7	2350.5	2375.6	2428.5
20°	2310.1	2332.8	2360.5	2368.1	2337.9
22.5°	2257.2	2264.8	2274.9	2300.1	2317.7
25°	2211.9	2211.9	2227.0	2269.8	2249.7
27.5°	2148.9	2154.0	2176.6	2189.2	2216.9
30°	2080.9	2085.9	2096.0	2154.0	2148.9
32.5°	2010.4	2015.4	2025.5	2063.3	2035.5
35°	1924.7	1922.2	1942.3	1811.3	1723.2
37.5°	1829.0	1826.4	1738.3	1491.4	1408.3
40°	1705.5	1695.4	1446.0	1252.1	1211.8
42.5°	1549.3	1506.5	1209.2	1095.9	1075.7
45°	1342.8	1239.5	1017.8	944.7	927.1
47.5°	1098.4	1020.3	828.8	796.1	753.3
50°	833.9	838.9	692.8	670.1	581.9
52.5°	637.4	697.8	609.7	566.8	450.9
55°	468.6	579.4	541.6	483.7	345.1
57.5°	347.7	481.2	458.5	415.7	264.5
60°	246.9	400.6	377.9	357.7	194.0
62.5°	178.9	335.1	309.9	302.3	148.6
65°	131.0	279.6	246.9	254.4	126.0
67.5°	105.8	234.3	186.4	221.7	108.3
70°	105.8	209.1	133.5	196.5	108.3
72.5°	105.8	196.5	105.8	178.9	113.4
75°	100.8	178.9	80.6	161.2	105.8
77.5°	93.2	146.1	68.0	138.6	100.8
80°	88.2	108.3	65.5	108.3	93.2
82.5°	68.0	75.6	60.5	80.6	73.1
85°	42.8	55.4	45.3	57.9	45.3
87.5°	20.2	30.2	20.2	30.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)