

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: P476033

Luminaire Tested: **22GR-LD5-60-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476033
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-A-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5589.1 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

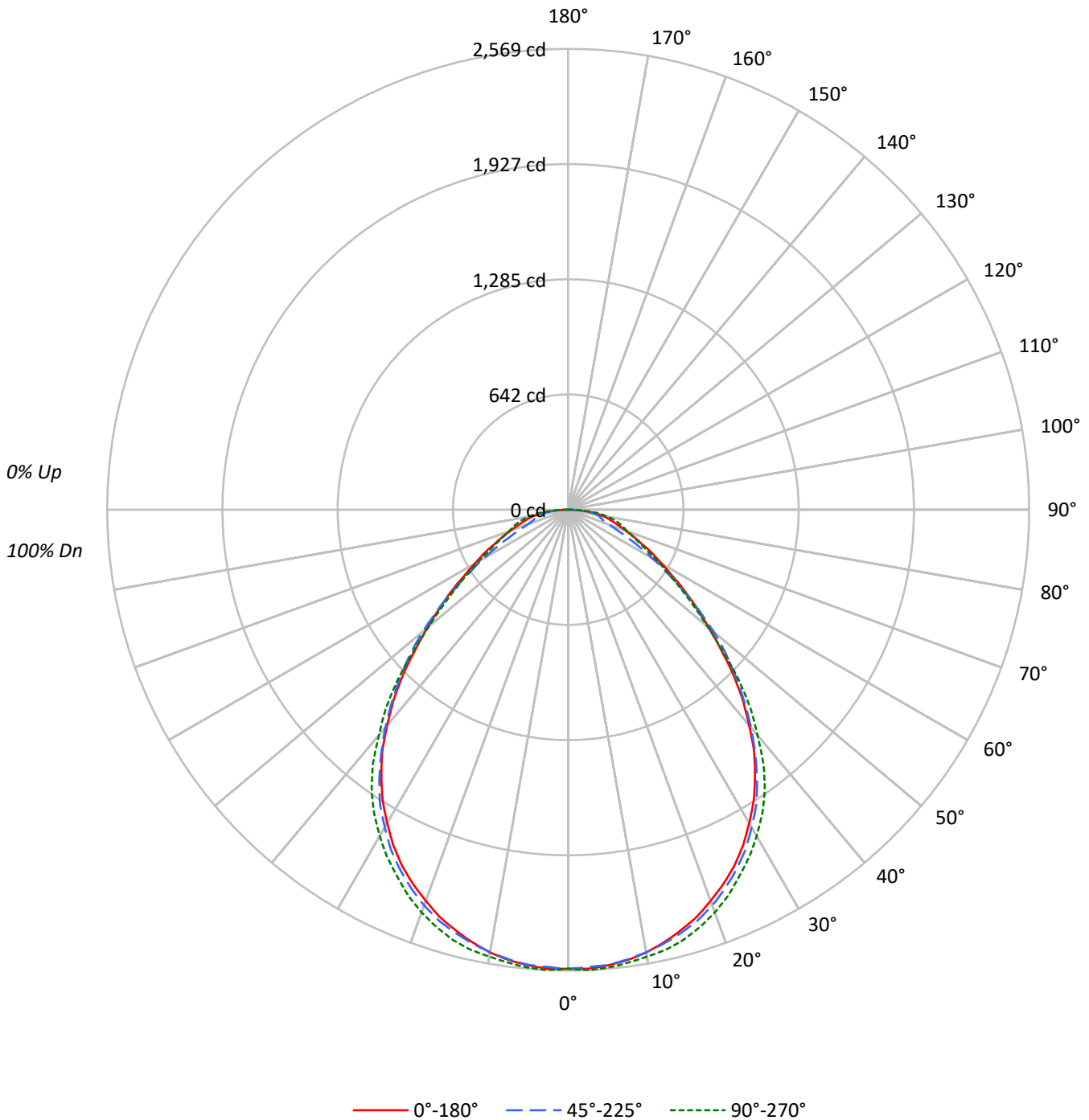
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6888	6888	6888
5°	6890	6880	6921
10°	6848	6845	6912
15°	6761	6798	6917
20°	6645	6722	6842
25°	6503	6577	6696
30°	6268	6353	6527
35°	5960	6028	6273
40°	5511	5570	5766
45°	4950	5039	5119
50°	4279	4432	4236
55°	3734	3636	3588
60°	3234	2912	3108
65°	2890	2286	2792
70°	2681	1893	2754
75°	2676	2000	3056
80°	2966	2517	3445
85°	3094	2729	3900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	4.3
10°-20°	689.9	12.3
20°-30°	1020.3	18.3
30°-40°	1151.4	20.6
40°-50°	1015.0	18.2
50°-60°	696.3	12.5
60°-70°	410.9	7.4
70°-80°	256.4	4.6
80°-90°	106.9	1.9
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°	1952.4	34.9
0°-40°	3103.8	55.5
0°-60°	4815.0	86.1
0°-90°	5589.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5589.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2560	2560	2560	2560	2560	
5°	2551	2545	2547	2556	2562	242
15°	2427	2429	2440	2470	2483	684
25°	2190	2198	2215	2244	2255	1006
35°	1814	1830	1835	1880	1909	1131
45°	1301	1307	1324	1332	1345	999
55°	796	776	775	749	765	714
65°	454	399	359	415	438	457
75°	257	232	192	269	294	276
85°	100	94	88	116	126	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2559.5	2559.5	2559.5	2559.5	2559.5
2.5°	2560.9	2554.4	2551.9	2562.3	2568.8
5°	2550.6	2545.4	2546.8	2555.7	2562.3
7.5°	2532.3	2528.5	2528.5	2541.3	2547.8
10°	2506.2	2505.1	2505.1	2520.6	2529.6
12.5°	2470.0	2471.1	2476.2	2497.2	2512.7
15°	2427.0	2429.4	2440.1	2470.0	2482.8
17.5°	2380.2	2380.2	2400.9	2424.3	2440.1
20°	2320.3	2324.1	2347.5	2373.7	2389.2
22.5°	2259.1	2265.6	2285.2	2315.2	2329.3
25°	2190.2	2198.1	2215.0	2243.6	2255.3
27.5°	2109.7	2120.0	2138.3	2158.9	2183.7
30°	2017.1	2033.0	2044.7	2073.2	2100.4
32.5°	1923.5	1938.0	1951.0	1981.0	2012.0
35°	1814.4	1829.9	1835.1	1879.5	1909.4
37.5°	1702.6	1709.1	1711.5	1755.9	1788.3
40°	1568.7	1581.4	1585.5	1620.6	1641.3
42.5°	1439.6	1445.1	1452.7	1478.9	1503.6
45°	1300.6	1307.1	1324.0	1331.9	1345.0
47.5°	1155.0	1174.6	1193.9	1169.1	1170.5
50°	1022.2	1038.0	1058.6	1011.8	1011.8
52.5°	903.8	911.7	913.1	874.2	881.7
55°	796.0	776.4	775.0	749.2	764.7
57.5°	688.0	662.2	652.9	645.0	663.2
60°	600.9	554.1	541.0	552.7	577.5
62.5°	529.3	469.4	444.7	474.6	497.0
65°	453.9	399.2	359.0	415.1	438.5
67.5°	395.4	343.5	291.5	370.7	387.5
70°	340.7	300.5	240.6	336.9	350.0
72.5°	296.7	265.3	208.2	304.2	320.1
75°	257.4	231.6	192.4	269.1	293.9
77.5°	226.5	197.5	179.7	232.7	262.6
80°	191.4	162.4	162.4	195.1	222.3
82.5°	150.7	127.3	131.5	158.7	178.3
85°	100.2	93.6	88.4	115.6	126.3
87.5°	50.6	52.0	46.8	59.9	61.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)