

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: P476066

Luminaire Tested: **22GR-LD5-40-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476066
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4068.4 lumens
Efficiency: N/A
Efficacy: 125.6 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

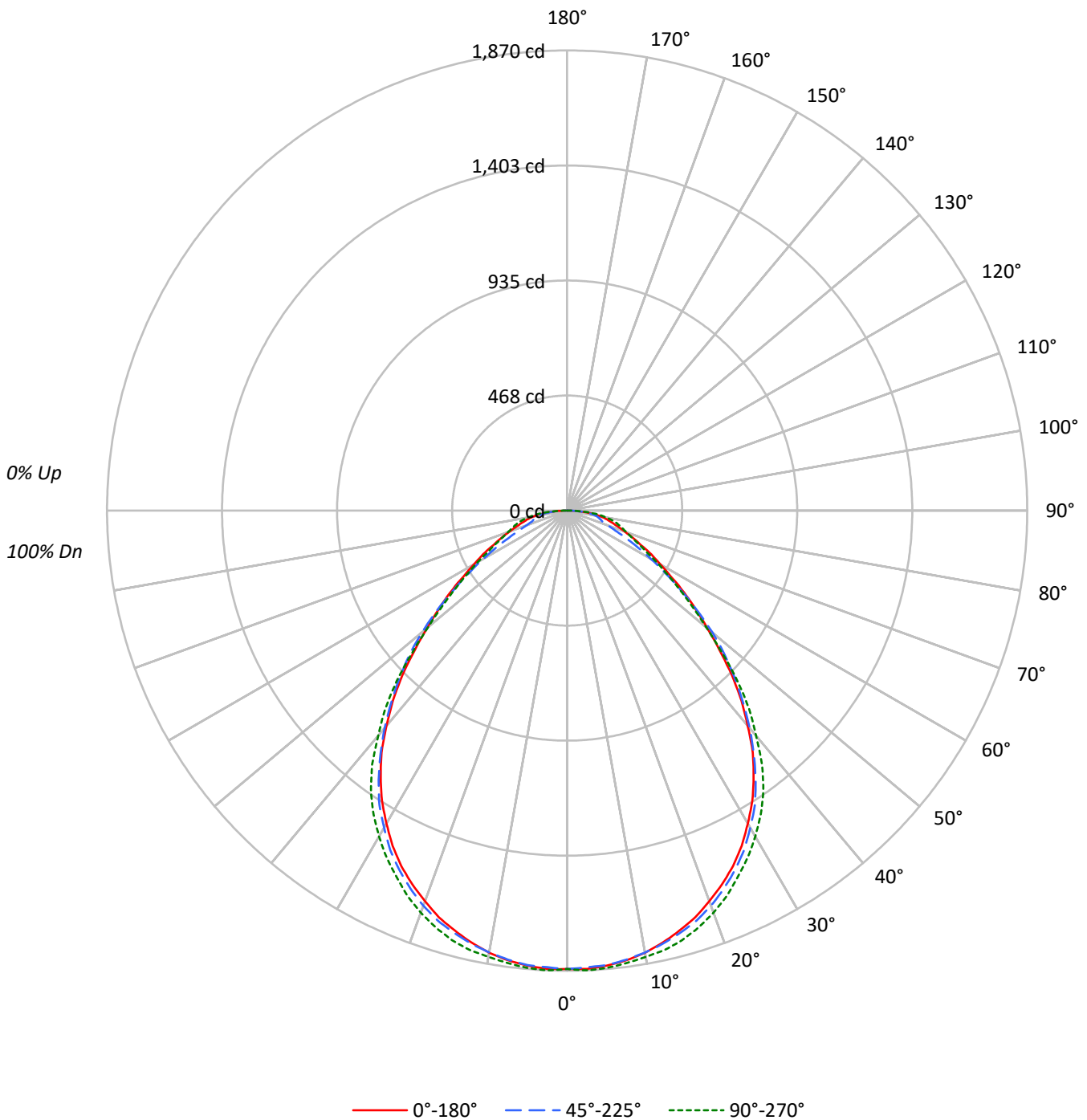
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5014	5014	5014
5°	5015	5008	5038
10°	4985	4983	5031
15°	4922	4948	5035
20°	4837	4893	4980
25°	4734	4787	4874
30°	4562	4625	4751
35°	4339	4388	4566
40°	4011	4054	4197
45°	3603	3667	3726
50°	3115	3226	3083
55°	2718	2647	2612
60°	2354	2119	2263
65°	2104	1664	2032
70°	1951	1378	2005
75°	1948	1456	2224
80°	2159	1832	2507
85°	2251	1988	2837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	4.3
10°-20°	502.2	12.3
20°-30°	742.7	18.3
30°-40°	838.1	20.6
40°-50°	738.8	18.2
50°-60°	506.8	12.5
60°-70°	299.1	7.4
70°-80°	186.6	4.6
80°-90°	77.8	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°	1421.2	34.9
0°-40°	2259.3	55.5
0°-60°	3504.9	86.1
0°-90°	4068.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4068.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1863	1863	1863	1863	1863	
5°	1857	1853	1854	1860	1865	176
15°	1767	1768	1776	1798	1807	498
25°	1594	1600	1612	1633	1642	732
35°	1321	1332	1336	1368	1390	823
45°	947	952	964	970	979	727
55°	579	565	564	545	557	520
65°	330	291	261	302	319	333
75°	187	169	140	196	214	201
85°	73	68	64	84	92	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1863.1	1863.1	1863.1	1863.1	1863.1
2.5°	1864.1	1859.3	1857.6	1865.1	1869.9
5°	1856.6	1852.8	1853.8	1860.3	1865.1
7.5°	1843.3	1840.6	1840.6	1849.8	1854.6
10°	1824.3	1823.5	1823.5	1834.8	1841.3
12.5°	1798.0	1798.7	1802.5	1817.8	1829.0
15°	1766.7	1768.4	1776.2	1798.0	1807.2
17.5°	1732.6	1732.6	1747.6	1764.6	1776.2
20°	1689.0	1691.7	1708.8	1727.8	1739.1
22.5°	1644.4	1649.2	1663.4	1685.2	1695.5
25°	1594.3	1600.1	1612.3	1633.1	1641.6
27.5°	1535.7	1543.2	1556.5	1571.5	1589.5
30°	1468.3	1479.8	1488.3	1509.1	1528.9
32.5°	1400.1	1410.7	1420.2	1442.0	1464.5
35°	1320.7	1332.0	1335.8	1368.1	1389.9
37.5°	1239.3	1244.1	1245.8	1278.1	1301.7
40°	1141.9	1151.1	1154.1	1179.7	1194.7
42.5°	1047.9	1051.9	1057.4	1076.5	1094.5
45°	946.7	951.5	963.7	969.5	979.0
47.5°	840.7	855.0	869.0	851.0	852.0
50°	744.0	755.6	770.6	736.5	736.5
52.5°	657.9	663.6	664.6	636.3	641.8
55°	579.4	565.2	564.2	545.4	556.7
57.5°	500.8	482.0	475.2	469.5	482.7
60°	437.4	403.3	393.8	402.3	420.4
62.5°	385.3	341.7	323.7	345.5	361.7
65°	330.4	290.6	261.3	302.1	319.2
67.5°	287.8	250.0	212.2	269.8	282.1
70°	248.0	218.7	175.1	245.3	254.8
72.5°	215.9	193.1	151.6	221.5	233.0
75°	187.4	168.6	140.0	195.9	213.9
77.5°	164.8	143.8	130.8	169.4	191.1
80°	139.3	118.2	118.2	142.0	161.8
82.5°	109.7	92.7	95.7	115.5	129.8
85°	72.9	68.1	64.4	84.2	91.9
87.5°	36.8	37.8	34.1	43.6	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)