

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: P475616

Luminaire Tested: **24GR-LD5-56-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475616
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-F125-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5802.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

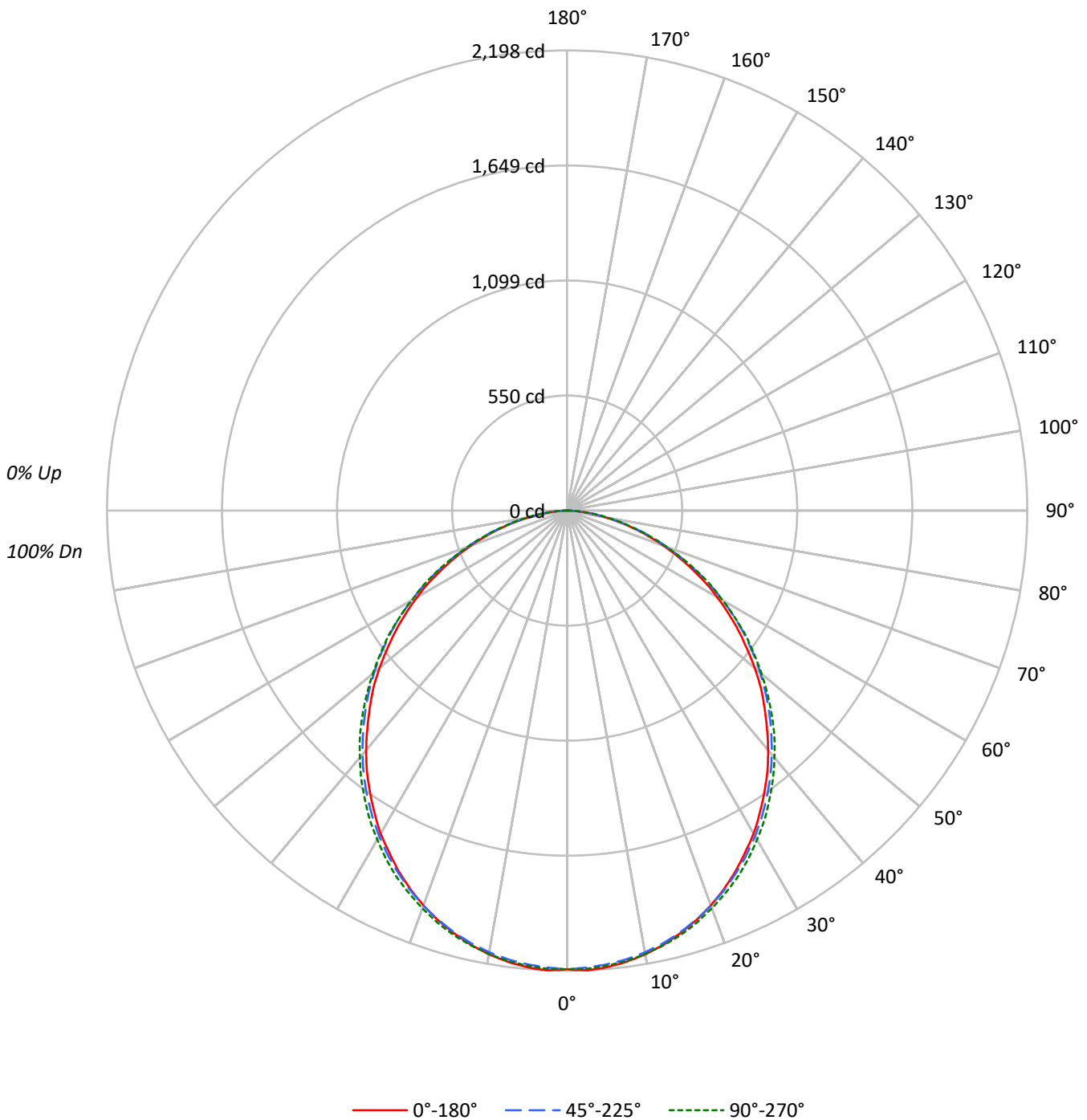
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2948	2948	2948
5°	2957	2939	2947
10°	2940	2926	2938
15°	2911	2905	2923
20°	2874	2875	2894
25°	2824	2835	2865
30°	2769	2790	2819
35°	2697	2734	2766
40°	2623	2671	2706
45°	2536	2598	2632
50°	2448	2520	2537
55°	2343	2426	2444
60°	2230	2306	2309
65°	2084	2164	2176
70°	1930	1985	1978
75°	1715	1776	1782
80°	1435	1486	1542
85°	1076	1158	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	3.6
10°-20°	589.0	10.2
20°-30°	880.5	15.2
30°-40°	1040.3	17.9
40°-50°	1050.1	18.1
50°-60°	916.5	15.8
60°-70°	668.1	11.5
70°-80°	360.3	6.2
80°-90°	90.2	1.6
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°	1676.5	28.9
0°-40°	2716.8	46.8
0°-60°	4683.4	80.7
0°-90°	5802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2191	2191	2191	2191	2191	
5°	2190	2182	2176	2178	2182	208
15°	2090	2086	2085	2090	2098	589
25°	1902	1902	1910	1922	1930	876
35°	1642	1647	1665	1681	1684	1027
45°	1333	1343	1366	1383	1383	1029
55°	999	1011	1034	1038	1042	892
65°	654	669	680	681	684	650
75°	330	333	342	343	343	351
85°	70	71	75	79	78	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2191.2	2191.2	2191.2	2191.2	2191.2
2.5°	2198.4	2190.5	2184.2	2185.6	2190.8
5°	2189.5	2181.6	2175.7	2177.7	2181.9
7.5°	2173.7	2166.5	2161.9	2163.9	2169.4
10°	2152.0	2146.1	2141.8	2144.8	2150.7
12.5°	2124.4	2118.5	2116.8	2121.1	2126.4
15°	2089.9	2085.6	2085.2	2090.2	2098.1
17.5°	2051.0	2046.8	2049.1	2055.6	2062.6
20°	2007.0	2003.0	2007.6	2016.5	2021.1
22.5°	1956.6	1953.4	1961.6	1970.8	1976.7
25°	1902.0	1902.4	1909.6	1921.8	1929.7
27.5°	1841.5	1843.8	1854.7	1866.5	1874.4
30°	1782.0	1780.0	1795.5	1808.3	1814.2
32.5°	1712.9	1713.9	1732.0	1745.2	1754.0
35°	1642.2	1646.8	1664.6	1680.7	1684.0
37.5°	1570.8	1574.1	1595.5	1611.3	1615.6
40°	1493.6	1499.5	1520.5	1535.3	1540.6
42.5°	1413.0	1420.5	1443.2	1458.7	1465.6
45°	1333.0	1342.6	1365.6	1382.7	1383.0
47.5°	1255.8	1262.7	1285.0	1300.2	1298.5
50°	1169.6	1179.8	1203.8	1213.0	1212.0
52.5°	1081.4	1096.9	1118.9	1126.2	1125.2
55°	998.6	1010.7	1034.4	1038.3	1042.0
57.5°	912.7	923.2	948.9	950.5	949.9
60°	828.8	838.4	857.1	861.7	858.1
62.5°	744.3	753.8	770.6	775.2	774.6
65°	654.5	668.7	679.8	681.2	683.5
67.5°	571.0	579.9	590.7	592.7	591.0
70°	490.7	498.3	504.5	505.9	502.9
72.5°	407.8	414.7	423.6	425.3	422.0
75°	329.9	333.2	341.7	343.0	342.7
77.5°	254.2	256.9	263.1	268.1	268.7
80°	185.2	186.2	191.8	195.4	199.0
82.5°	122.7	125.3	129.6	133.2	136.5
85°	69.7	71.4	75.0	78.6	77.6
87.5°	27.0	30.6	30.9	34.5	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)