

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: P476228

Luminaire Tested: **14GR-LD5-40-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476228
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F125-UNV-L840-CD1-U
Description: GR 1'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: 4047.6 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

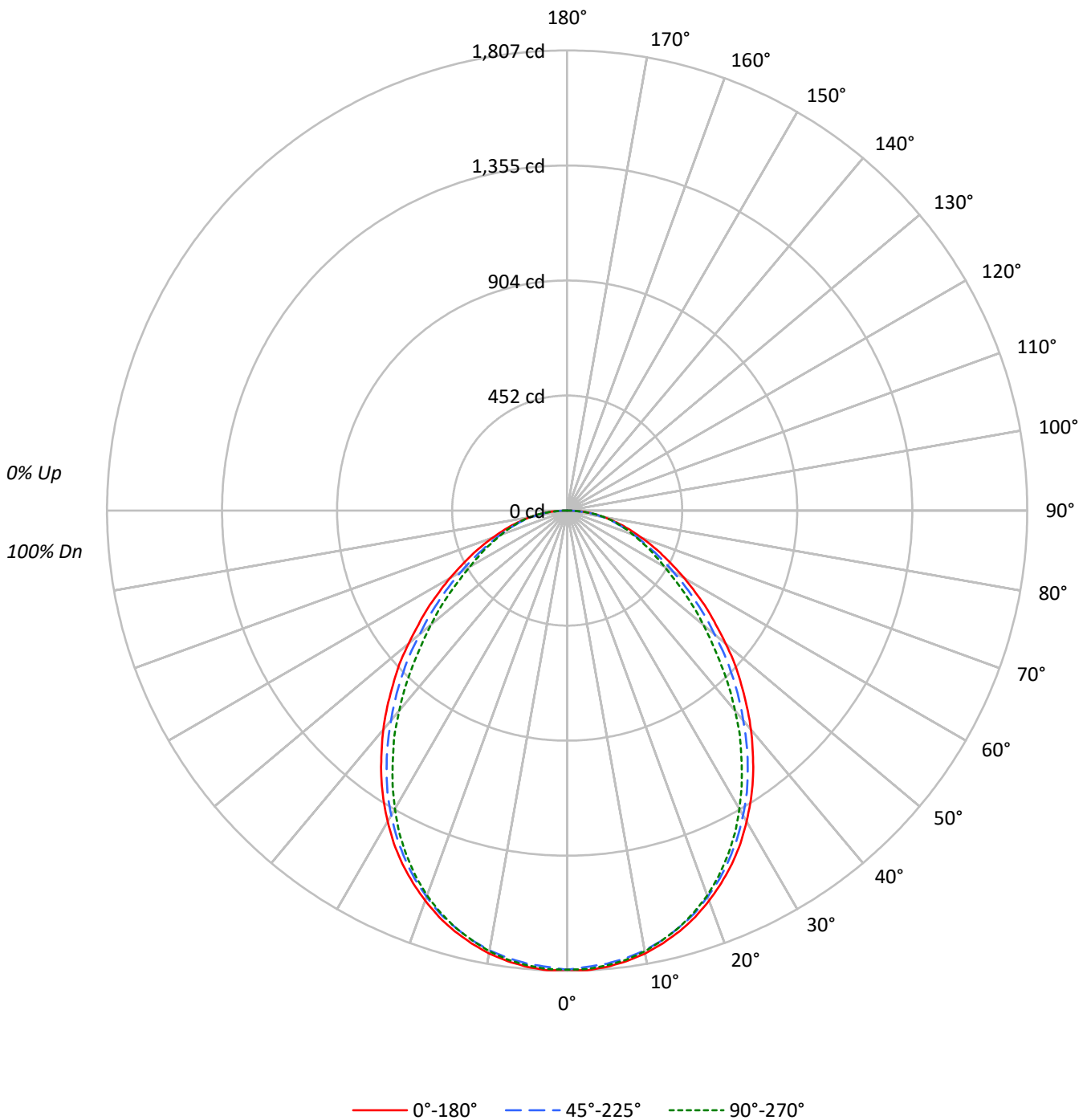
Input Watts (W): 31.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476228

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476228

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L840-CD1-U

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4852	4852	4852
5°	4858	4825	4843
10°	4825	4792	4802
15°	4762	4724	4724
20°	4667	4622	4606
25°	4545	4479	4432
30°	4379	4293	4204
35°	4183	4061	3921
40°	3946	3780	3604
45°	3679	3489	3253
50°	3400	3163	2927
55°	3137	2867	2632
60°	2861	2591	2377
65°	2630	2353	2246
70°	2441	2200	2157
75°	2330	2138	2176
80°	2281	2152	2267
85°	2343	2115	2260



TEST NUMBER: P476228

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	4.2
10°-20°	478.8	11.8
20°-30°	694.6	17.2
30°-40°	771.2	19.1
40°-50°	705.5	17.4
50°-60°	549.6	13.6
60°-70°	375.5	9.3
70°-80°	224.3	5.5
80°-90°	78.0	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°	1343.5	33.2
0°-40°	2114.7	52.2
0°-60°	3369.8	83.3
0°-90°	4047.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4047.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1803	1803	1803	1803	1803	
5°	1798	1795	1786	1796	1793	171
15°	1709	1705	1696	1702	1696	481
25°	1531	1524	1508	1504	1493	704
35°	1273	1262	1236	1210	1194	794
45°	967	954	917	874	855	747
55°	669	648	611	575	561	597
65°	413	397	370	353	353	411
75°	224	215	206	209	209	238
85°	76	72	68	75	73	82
90°	0	0	0	0	0	



TEST NUMBER: P476228

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1802.9	1802.9	1802.9	1802.9	1802.9
2.5°	1806.6	1802.0	1793.6	1802.9	1802.0
5°	1798.3	1794.6	1786.2	1795.5	1792.7
7.5°	1785.3	1781.6	1772.3	1782.5	1778.8
10°	1765.8	1761.2	1753.8	1761.2	1757.5
12.5°	1739.9	1735.3	1727.9	1734.4	1727.9
15°	1709.4	1704.7	1695.5	1702.0	1695.5
17.5°	1673.2	1666.8	1659.4	1660.3	1654.7
20°	1629.7	1623.2	1614.0	1614.0	1608.4
22.5°	1582.5	1576.0	1564.9	1561.2	1553.8
25°	1530.6	1524.2	1508.4	1503.8	1492.7
27.5°	1474.2	1464.0	1448.2	1438.1	1426.9
30°	1409.3	1401.0	1381.6	1366.7	1352.9
32.5°	1343.6	1335.3	1313.0	1290.8	1276.0
35°	1273.2	1262.1	1236.2	1210.3	1193.6
37.5°	1197.3	1188.0	1158.4	1126.9	1114.0
40°	1123.2	1111.2	1076.0	1043.6	1026.0
42.5°	1045.4	1032.5	997.3	960.2	940.8
45°	966.7	953.8	916.7	874.1	854.7
47.5°	893.6	876.9	838.0	795.4	772.3
50°	812.1	798.2	755.6	714.9	699.1
52.5°	736.2	723.2	683.4	643.6	628.7
55°	668.6	648.2	611.1	575.0	561.1
57.5°	596.3	579.7	544.5	510.2	496.3
60°	531.5	518.6	481.5	451.9	441.7
62.5°	467.6	457.4	423.2	401.0	394.5
65°	413.0	397.2	369.5	352.8	352.8
67.5°	361.1	345.4	321.3	314.8	309.3
70°	310.2	298.2	279.6	274.1	274.1
72.5°	264.8	254.6	241.7	239.8	243.5
75°	224.1	214.8	205.6	209.3	209.3
77.5°	183.3	176.9	173.2	175.0	178.7
80°	147.2	142.6	138.9	143.5	146.3
82.5°	113.0	108.3	105.6	112.0	111.1
85°	75.9	72.2	68.5	75.0	73.2
87.5°	38.0	36.1	29.6	33.3	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)