

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: P476229

Luminaire Tested: **14GR-LD5-43-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476229
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-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: 4413.5 lumens
Efficiency: N/A
Efficacy: 133.7 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

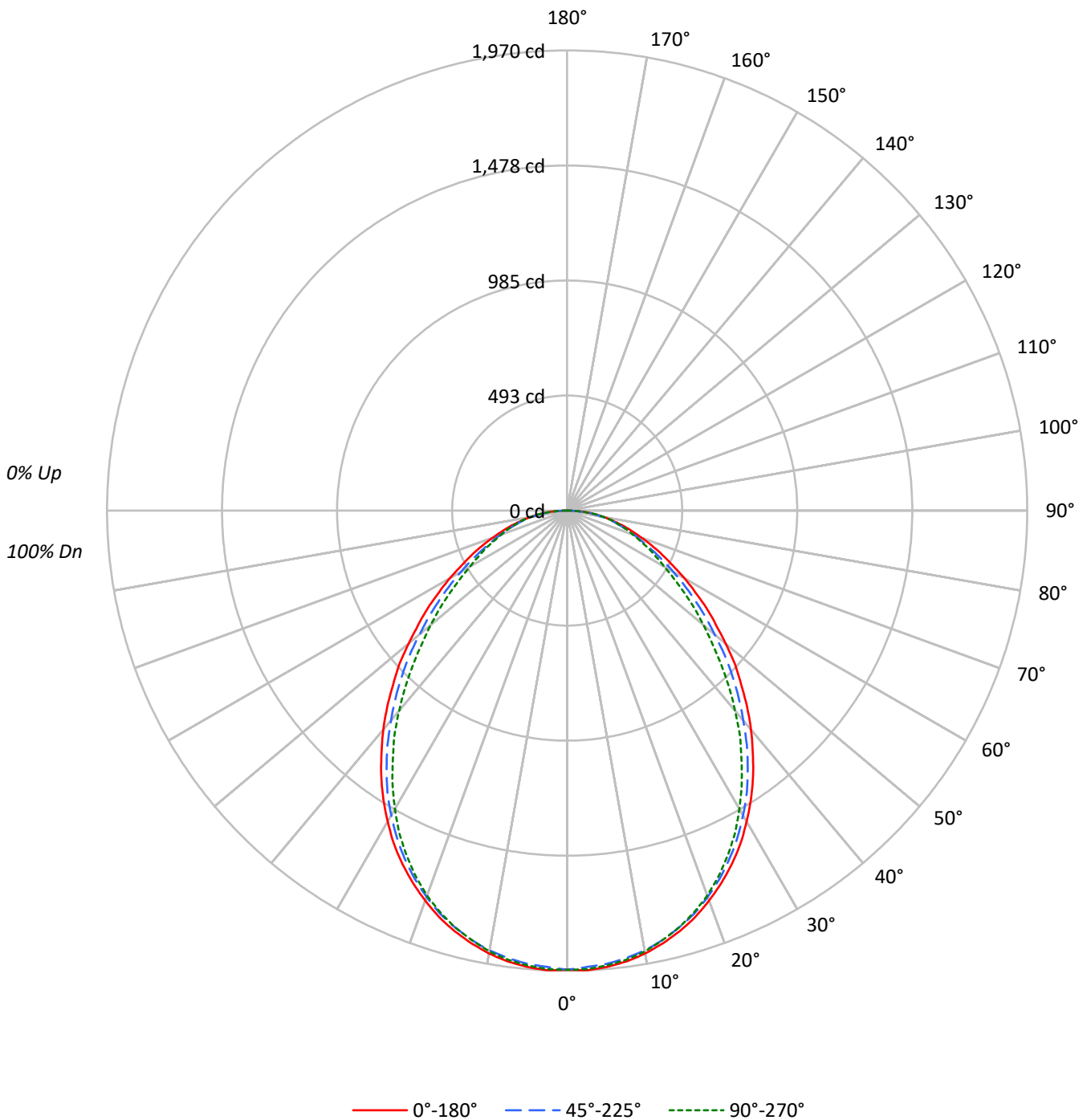
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476229

CATALOG NUMBER: 14GR-LD5-43-F125-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476229

CATALOG NUMBER: 14GR-LD5-43-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5290	5290	5290
5°	5297	5261	5280
10°	5261	5225	5237
15°	5193	5150	5150
20°	5089	5040	5022
25°	4956	4884	4833
30°	4775	4681	4584
35°	4561	4428	4276
40°	4302	4121	3930
45°	4012	3804	3546
50°	3707	3449	3191
55°	3420	3126	2871
60°	3119	2826	2592
65°	2867	2565	2450
70°	2661	2399	2352
75°	2540	2330	2373
80°	2487	2348	2472
85°	2556	2306	2464



TEST NUMBER: P476229

CATALOG NUMBER: 14GR-LD5-43-F125-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	4.2
10°-20°	522.1	11.8
20°-30°	757.4	17.2
30°-40°	840.9	19.1
40°-50°	769.3	17.4
50°-60°	599.3	13.6
60°-70°	409.5	9.3
70°-80°	244.6	5.5
80°-90°	85.1	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°	1464.9	33.2
0°-40°	2305.8	52.2
0°-60°	3674.4	83.3
0°-90°	4413.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4413.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1961	1957	1948	1958	1955	186
15°	1864	1859	1849	1856	1849	525
25°	1669	1662	1645	1640	1628	767
35°	1388	1376	1348	1320	1302	866
45°	1054	1040	1000	953	932	814
55°	729	707	666	627	612	651
65°	450	433	403	385	385	448
75°	244	234	224	228	228	259
85°	83	79	75	82	80	89
90°	0	0	0	0	0	



TEST NUMBER: P476229

CATALOG NUMBER: 14GR-LD5-43-F125-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1965.8	1965.8	1965.8	1965.8	1965.8
2.5°	1969.9	1964.8	1955.7	1965.8	1964.8
5°	1960.8	1956.7	1947.7	1957.8	1954.7
7.5°	1946.7	1942.6	1932.5	1943.6	1939.6
10°	1925.5	1920.4	1912.3	1920.4	1916.4
12.5°	1897.2	1892.1	1884.1	1891.1	1884.1
15°	1863.9	1858.8	1848.7	1855.8	1848.7
17.5°	1824.5	1817.4	1809.3	1810.3	1804.3
20°	1777.0	1770.0	1759.9	1759.9	1753.8
22.5°	1725.5	1718.5	1706.4	1702.3	1694.2
25°	1669.0	1661.9	1644.8	1639.7	1627.6
27.5°	1607.4	1596.3	1579.1	1568.0	1555.9
30°	1536.7	1527.6	1506.4	1490.3	1475.1
32.5°	1465.0	1456.0	1431.7	1407.5	1391.3
35°	1388.3	1376.2	1347.9	1319.6	1301.5
37.5°	1305.5	1295.4	1263.1	1228.8	1214.6
40°	1224.7	1211.6	1173.2	1137.9	1118.7
42.5°	1139.9	1125.8	1087.4	1047.0	1025.8
45°	1054.1	1040.0	999.6	953.1	931.9
47.5°	974.3	956.2	913.8	867.3	842.1
50°	885.5	870.3	823.9	779.5	762.3
52.5°	802.7	788.6	745.1	701.7	685.6
55°	729.0	706.8	666.4	627.0	611.9
57.5°	650.2	632.1	593.7	556.3	541.2
60°	579.6	565.4	525.0	492.7	481.6
62.5°	509.9	498.8	461.4	437.2	430.1
65°	450.3	433.2	402.9	384.7	384.7
67.5°	393.8	376.6	350.4	343.3	337.2
70°	338.2	325.1	304.9	298.9	298.9
72.5°	288.8	277.7	263.5	261.5	265.5
75°	244.3	234.2	224.1	228.2	228.2
77.5°	199.9	192.8	188.8	190.8	194.9
80°	160.5	155.5	151.5	156.5	159.5
82.5°	123.2	118.1	115.1	122.2	121.2
85°	82.8	78.8	74.7	81.8	79.8
87.5°	41.4	39.4	32.3	36.3	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)