

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: P476205

Luminaire Tested: **14GR-LD5-20-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476205
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-F125-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

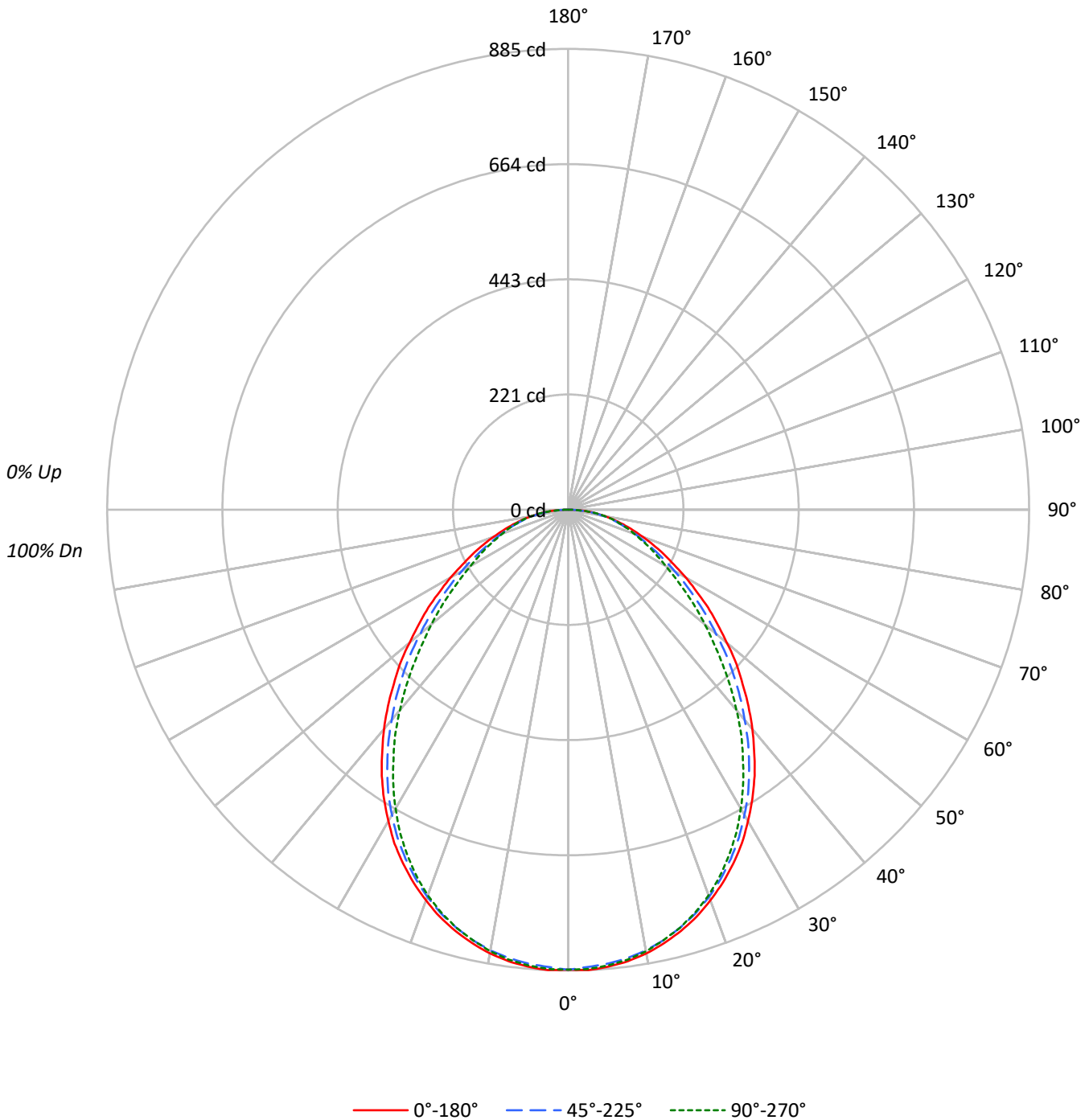
Lumens per Lamp: N/A
Luminaire Lumens: 1983.1 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2377	2377	2377
5°	2380	2364	2373
10°	2364	2348	2353
15°	2333	2314	2314
20°	2287	2265	2257
25°	2227	2195	2171
30°	2146	2103	2060
35°	2049	1990	1921
40°	1933	1852	1766
45°	1803	1709	1594
50°	1666	1550	1434
55°	1537	1405	1290
60°	1401	1270	1165
65°	1288	1152	1101
70°	1196	1078	1057
75°	1142	1047	1066
80°	1117	1055	1111
85°	1149	1037	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	4.2
10°-20°	234.6	11.8
20°-30°	340.3	17.2
30°-40°	377.8	19.1
40°-50°	345.7	17.4
50°-60°	269.3	13.6
60°-70°	184.0	9.3
70°-80°	109.9	5.5
80°-90°	38.2	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°	658.2	33.2
0°-40°	1036.1	52.2
0°-60°	1651.1	83.3
0°-90°	1983.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	881	879	875	880	878	84
15°	838	835	831	834	831	236
25°	750	747	739	737	731	345
35°	624	618	606	593	585	389
45°	474	467	449	428	419	366
55°	328	318	299	282	275	293
65°	202	195	181	173	173	201
75°	110	105	101	102	102	116
85°	37	35	34	37	36	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.3	883.3	883.3	883.3	883.3
2.5°	885.1	882.9	878.8	883.3	882.9
5°	881.1	879.2	875.2	879.7	878.3
7.5°	874.7	872.9	868.4	873.4	871.5
10°	865.2	862.9	859.3	862.9	861.1
12.5°	852.5	850.2	846.6	849.8	846.6
15°	837.5	835.2	830.7	833.9	830.7
17.5°	819.8	816.6	813.0	813.5	810.7
20°	798.5	795.3	790.8	790.8	788.1
22.5°	775.4	772.2	766.7	764.9	761.3
25°	749.9	746.8	739.1	736.8	731.3
27.5°	722.3	717.3	709.6	704.6	699.1
30°	690.5	686.4	676.9	669.6	662.8
32.5°	658.3	654.2	643.3	632.4	625.2
35°	623.8	618.4	605.7	593.0	584.8
37.5°	586.6	582.1	567.6	552.1	545.8
40°	550.3	544.4	527.2	511.3	502.7
42.5°	512.2	505.9	488.6	470.5	460.9
45°	473.7	467.3	449.2	428.3	418.8
47.5°	437.8	429.6	410.6	389.7	378.4
50°	397.9	391.1	370.2	350.2	342.5
52.5°	360.7	354.3	334.8	315.3	308.1
55°	327.6	317.6	299.4	281.7	274.9
57.5°	292.2	284.0	266.8	250.0	243.2
60°	260.4	254.1	235.9	221.4	216.4
62.5°	229.1	224.1	207.3	196.4	193.3
65°	202.3	194.6	181.0	172.9	172.9
67.5°	176.9	169.2	157.4	154.3	151.5
70°	152.0	146.1	137.0	134.3	134.3
72.5°	129.8	124.8	118.4	117.5	119.3
75°	109.8	105.3	100.7	102.5	102.5
77.5°	89.8	86.7	84.8	85.7	87.6
80°	72.1	69.9	68.1	70.3	71.7
82.5°	55.4	53.1	51.7	54.9	54.4
85°	37.2	35.4	33.6	36.7	35.8
87.5°	18.6	17.7	14.5	16.3	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)