

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: P290976

Luminaire Tested: **14GR-LD5-40-A-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4341.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

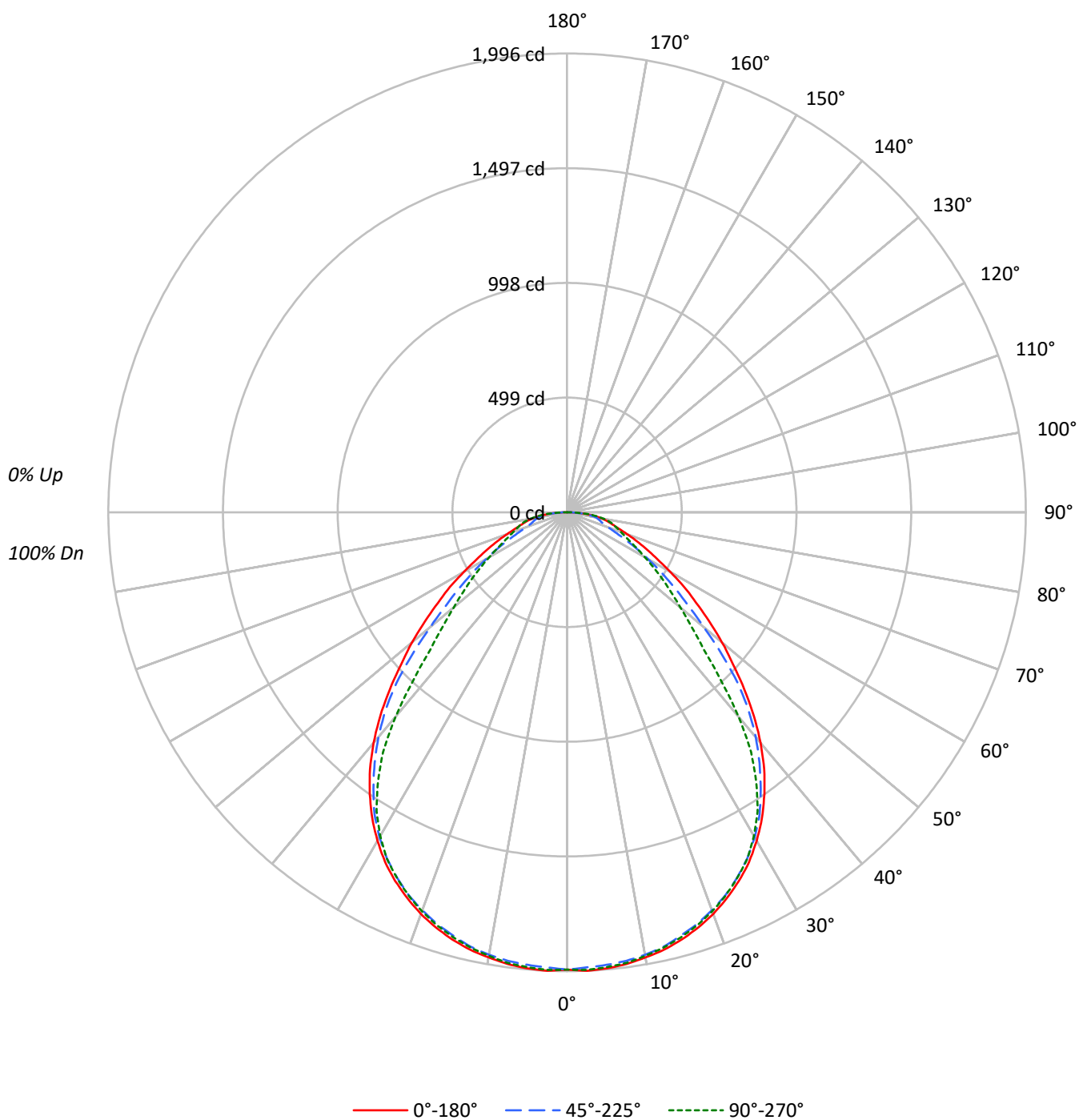
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5353	5353	5353
5°	5379	5338	5365
10°	5372	5339	5353
15°	5362	5314	5331
20°	5324	5275	5290
25°	5254	5203	5206
30°	5125	5072	5050
35°	4915	4826	4716
40°	4601	4484	4080
45°	4155	3998	3188
50°	3685	3246	2697
55°	3217	2663	2379
60°	2789	2192	2100
65°	2446	1759	1939
70°	2182	1491	1951
75°	2128	1572	2180
80°	2359	1984	2500
85°	2461	2118	2927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	4.3
10°-20°	540.7	12.5
20°-30°	808.8	18.6
30°-40°	913.0	21.0
40°-50°	774.5	17.8
50°-60°	524.1	12.1
60°-70°	312.8	7.2
70°-80°	195.9	4.5
80°-90°	82.4	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°	1538.2	35.4
0°-40°	2451.2	56.5
0°-60°	3749.8	86.4
0°-90°	4341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4341.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1991	1985	1976	1990	1986	189
15°	1925	1921	1908	1921	1914	543
25°	1769	1763	1752	1760	1753	814
35°	1496	1486	1469	1456	1436	932
45°	1092	1096	1051	900	838	841
55°	686	653	568	508	507	618
65°	384	319	276	294	304	384
75°	205	182	151	200	210	220
85°	80	76	69	89	95	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1989.2	1989.2	1989.2	1989.2	1989.2
2.5°	1996.3	1990.2	1981.2	1993.3	1992.3
5°	1991.3	1985.2	1976.1	1990.2	1986.2
7.5°	1982.2	1977.1	1968.1	1981.2	1977.1
10°	1966.0	1962.0	1954.0	1965.0	1959.0
12.5°	1948.9	1945.9	1935.8	1945.9	1939.8
15°	1924.7	1920.7	1907.6	1920.7	1913.6
17.5°	1894.5	1889.4	1878.3	1889.4	1883.4
20°	1859.2	1853.1	1842.0	1853.1	1847.1
22.5°	1816.8	1811.8	1801.7	1811.8	1803.7
25°	1769.4	1763.4	1752.3	1760.4	1753.3
27.5°	1715.0	1706.9	1696.9	1702.9	1698.9
30°	1649.5	1639.4	1632.3	1632.3	1625.3
32.5°	1577.9	1570.8	1558.7	1551.7	1542.6
35°	1496.2	1486.1	1469.0	1455.9	1435.7
37.5°	1408.5	1396.4	1375.2	1342.0	1314.7
40°	1309.7	1294.6	1276.4	1210.9	1161.5
42.5°	1203.8	1200.8	1169.5	1057.6	989.1
45°	1091.9	1095.9	1050.6	900.3	837.8
47.5°	979.0	993.1	910.4	763.2	731.0
50°	880.2	885.2	775.3	662.4	644.3
52.5°	778.4	770.3	661.4	582.8	569.7
55°	685.6	653.3	567.6	508.1	507.1
57.5°	603.9	544.4	485.0	440.6	445.6
60°	518.2	451.7	407.3	383.1	390.2
62.5°	442.6	379.1	339.8	332.7	344.8
65°	384.1	318.6	276.3	294.4	304.5
67.5°	328.7	273.2	224.8	268.2	272.2
70°	277.3	236.9	189.5	247.0	248.0
72.5°	234.9	209.7	164.3	223.8	226.9
75°	204.7	182.5	151.2	199.6	209.7
77.5°	179.5	156.3	140.1	172.4	189.5
80°	152.2	126.0	128.0	144.2	161.3
82.5°	117.0	97.8	101.8	119.0	131.1
85°	79.7	75.6	68.6	88.7	94.8
87.5°	42.3	40.3	35.3	50.4	47.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)