

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: P291037

Luminaire Tested: **14GR-LD5-40-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291037
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-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4321.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

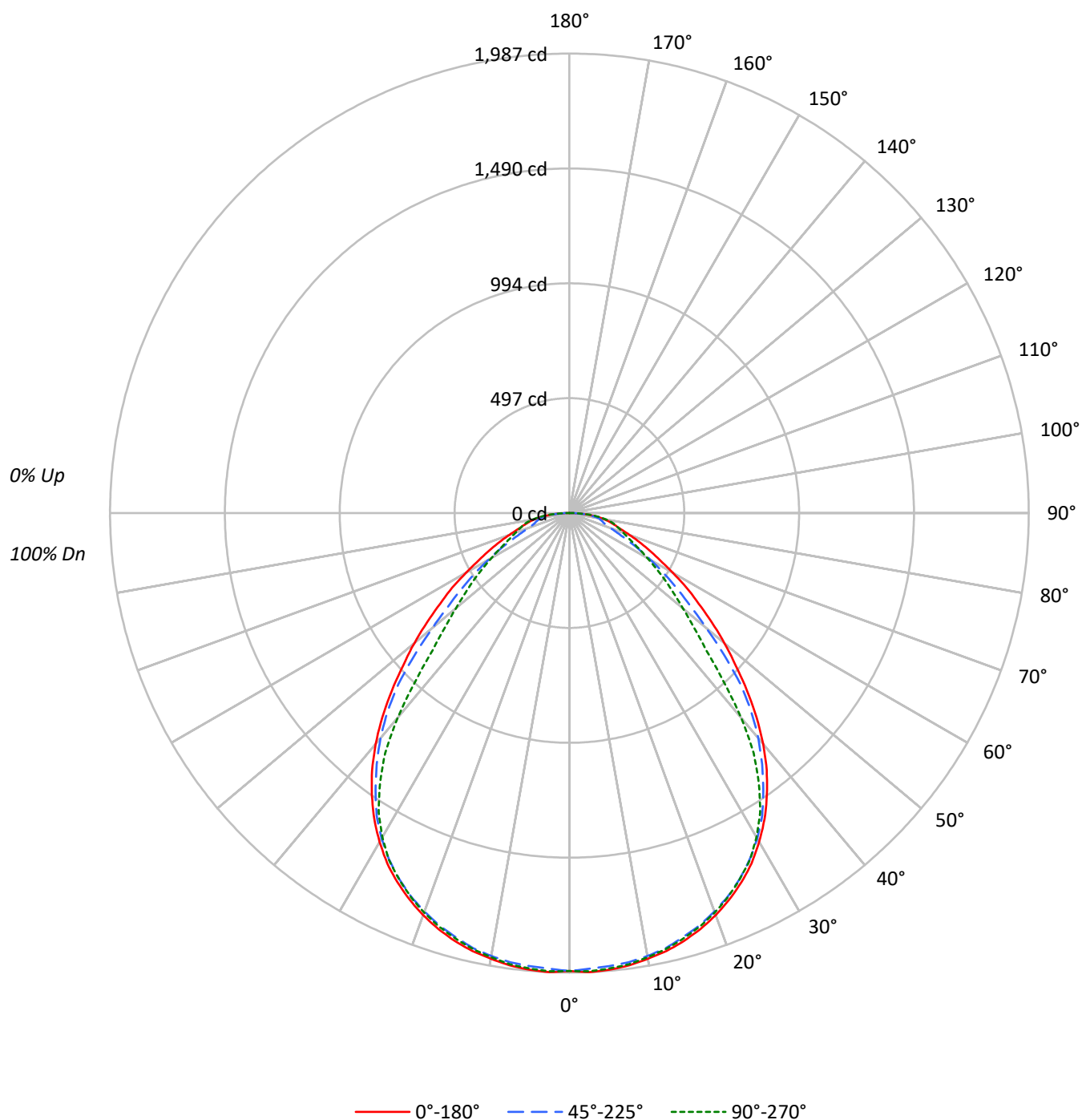
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5328	5328	5328
5°	5354	5313	5341
10°	5347	5314	5328
15°	5337	5290	5307
20°	5300	5251	5265
25°	5230	5179	5182
30°	5102	5049	5027
35°	4892	4803	4695
40°	4580	4463	4061
45°	4136	3980	3174
50°	3668	3231	2685
55°	3202	2651	2368
60°	2776	2182	2090
65°	2435	1751	1930
70°	2172	1485	1943
75°	2118	1565	2170
80°	2348	1976	2489
85°	2448	2106	2912



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	4.3
10°-20°	538.2	12.5
20°-30°	805.1	18.6
30°-40°	908.8	21.0
40°-50°	771.0	17.8
50°-60°	521.7	12.1
60°-70°	311.4	7.2
70°-80°	195.0	4.5
80°-90°	82.0	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°	1531.1	35.4
0°-40°	2439.9	56.5
0°-60°	3732.6	86.4
0°-90°	4321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1982	1976	1967	1981	1977	188
15°	1916	1912	1899	1912	1905	540
25°	1761	1755	1744	1752	1745	810
35°	1489	1479	1462	1449	1429	928
45°	1087	1091	1046	896	834	838
55°	682	650	565	506	505	615
65°	382	317	275	293	303	382
75°	204	182	150	199	209	219
85°	79	75	68	88	94	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1980.1	1980.1	1980.1	1980.1	1980.1
2.5°	1987.1	1981.1	1972.0	1984.1	1983.1
5°	1982.1	1976.1	1967.0	1981.1	1977.1
7.5°	1973.0	1968.0	1959.0	1972.0	1968.0
10°	1957.0	1953.0	1944.9	1956.0	1950.0
12.5°	1939.9	1936.9	1926.9	1936.9	1930.9
15°	1915.8	1911.8	1898.8	1911.8	1904.8
17.5°	1885.7	1880.7	1869.7	1880.7	1874.7
20°	1850.6	1844.6	1833.6	1844.6	1838.6
22.5°	1808.5	1803.4	1793.4	1803.4	1795.4
25°	1761.3	1755.3	1744.2	1752.3	1745.2
27.5°	1707.1	1699.1	1689.0	1695.1	1691.0
30°	1641.9	1631.8	1624.8	1624.8	1617.8
32.5°	1570.6	1563.6	1551.5	1544.5	1535.5
35°	1489.3	1479.3	1462.2	1449.2	1429.1
37.5°	1402.0	1390.0	1368.9	1335.8	1308.7
40°	1303.7	1288.6	1270.5	1205.3	1156.1
42.5°	1198.3	1195.3	1164.2	1052.8	984.5
45°	1086.9	1090.9	1045.7	896.2	834.0
47.5°	974.5	988.5	906.2	759.7	727.6
50°	876.1	881.1	771.8	659.4	641.3
52.5°	774.8	766.7	658.4	580.1	567.0
55°	682.4	650.3	565.0	505.8	504.8
57.5°	601.1	541.9	482.7	438.6	443.6
60°	515.8	449.6	405.4	381.4	388.4
62.5°	440.6	377.3	338.2	331.2	343.2
65°	382.4	317.1	275.0	293.0	303.1
67.5°	327.2	272.0	223.8	267.0	271.0
70°	276.0	235.8	188.7	245.9	246.9
72.5°	233.8	208.7	163.6	222.8	225.8
75°	203.7	181.6	150.5	198.7	208.7
77.5°	178.6	155.6	139.5	171.6	188.7
80°	151.5	125.4	127.5	143.5	160.6
82.5°	116.4	97.3	101.4	118.4	130.5
85°	79.3	75.3	68.2	88.3	94.3
87.5°	42.2	40.1	35.1	50.2	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)