

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: P291035

Luminaire Tested: **14GR-LD5-40-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291035
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4299.0 lumens
Efficiency: N/A
Efficacy: 124.3 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

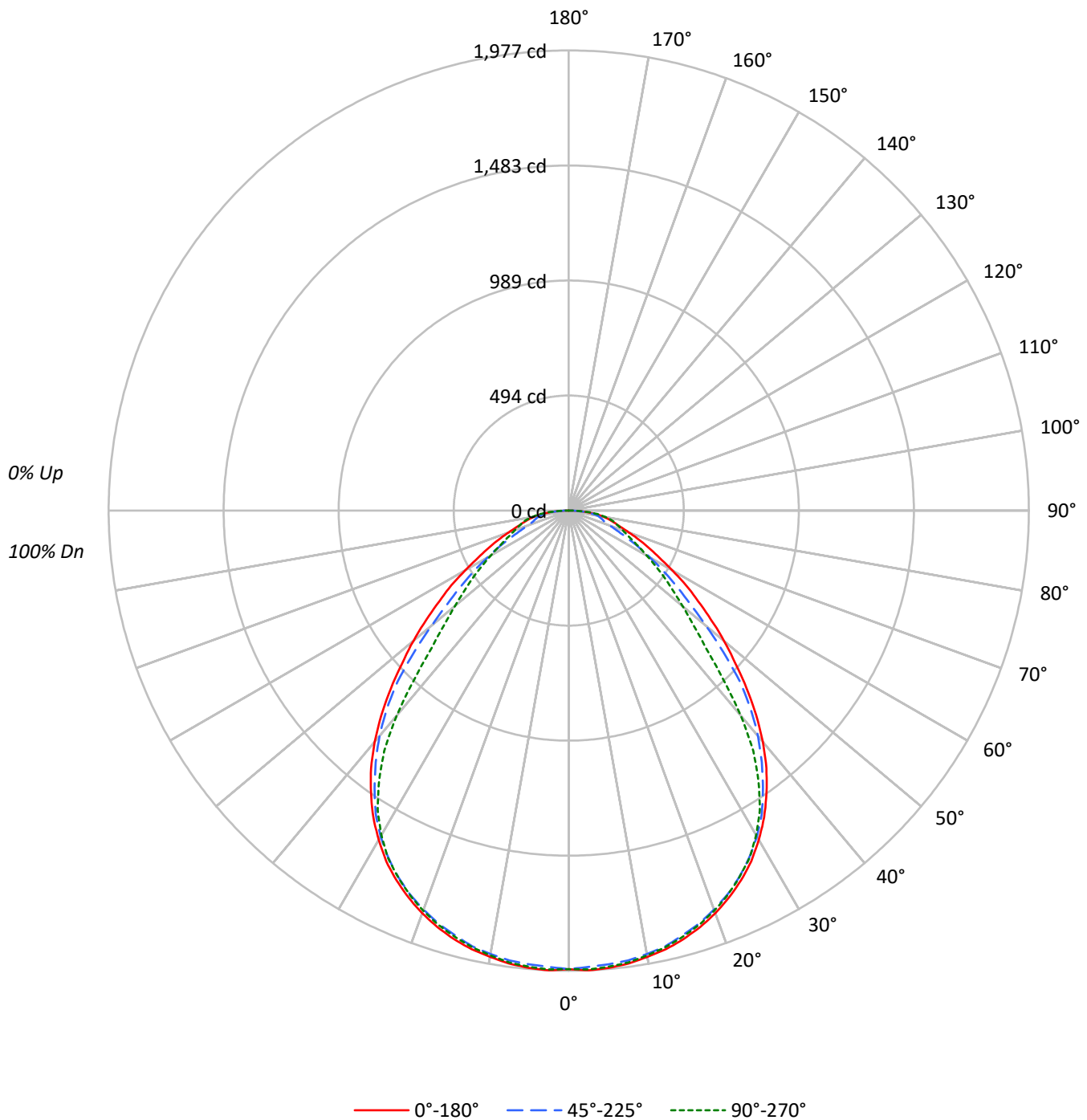
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5301	5301	5301
5°	5327	5286	5313
10°	5320	5287	5301
15°	5310	5263	5280
20°	5273	5224	5238
25°	5203	5153	5155
30°	5076	5023	5001
35°	4868	4779	4671
40°	4556	4441	4040
45°	4115	3959	3158
50°	3649	3214	2671
55°	3186	2637	2356
60°	2762	2171	2080
65°	2422	1742	1920
70°	2161	1477	1932
75°	2108	1557	2159
80°	2337	1965	2476
85°	2436	2096	2899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	4.3
10°-20°	535.4	12.5
20°-30°	801.0	18.6
30°-40°	904.2	21.0
40°-50°	767.0	17.8
50°-60°	519.0	12.1
60°-70°	309.8	7.2
70°-80°	194.0	4.5
80°-90°	81.6	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°	1523.3	35.4
0°-40°	2427.5	56.5
0°-60°	3713.6	86.4
0°-90°	4299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1970	1970	1970	1970	1970	
5°	1972	1966	1957	1971	1967	187
15°	1906	1902	1889	1902	1895	538
25°	1752	1746	1735	1743	1736	806
35°	1482	1472	1455	1442	1422	923
45°	1081	1085	1040	892	830	833
55°	679	647	562	503	502	612
65°	380	316	274	292	302	380
75°	203	181	150	198	208	218
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°	1970.0	1970.0	1970.0	1970.0	1970.0
2.5°	1977.0	1971.0	1962.0	1974.0	1973.0
5°	1972.0	1966.0	1957.0	1971.0	1967.0
7.5°	1963.0	1958.0	1949.0	1962.0	1958.0
10°	1947.0	1943.0	1935.0	1946.0	1940.0
12.5°	1930.1	1927.1	1917.1	1927.1	1921.1
15°	1906.1	1902.1	1889.1	1902.1	1895.1
17.5°	1876.1	1871.1	1860.2	1871.1	1865.2
20°	1841.2	1835.2	1824.2	1835.2	1829.2
22.5°	1799.3	1794.3	1784.3	1794.3	1786.3
25°	1752.3	1746.3	1735.4	1743.3	1736.3
27.5°	1698.4	1690.4	1680.4	1686.4	1682.4
30°	1633.5	1623.5	1616.5	1616.5	1609.5
32.5°	1562.6	1555.6	1543.6	1536.7	1527.7
35°	1481.7	1471.8	1454.8	1441.8	1421.8
37.5°	1394.9	1382.9	1361.9	1329.0	1302.0
40°	1297.0	1282.0	1264.1	1199.2	1150.2
42.5°	1192.2	1189.2	1158.2	1047.4	979.5
45°	1081.3	1085.3	1040.4	891.6	829.7
47.5°	969.5	983.5	901.6	755.8	723.9
50°	871.7	876.7	767.8	656.0	638.0
52.5°	770.8	762.8	655.0	577.1	564.1
55°	679.0	647.0	562.1	503.2	502.2
57.5°	598.1	539.2	480.3	436.3	441.3
60°	513.2	447.3	403.4	379.4	386.4
62.5°	438.3	375.4	336.5	329.5	341.5
65°	380.4	315.5	273.6	291.6	301.5
67.5°	325.5	270.6	222.7	265.6	269.6
70°	274.6	234.6	187.7	244.6	245.6
72.5°	232.6	207.7	162.8	221.7	224.7
75°	202.7	180.7	149.8	197.7	207.7
77.5°	177.7	154.8	138.8	170.7	187.7
80°	150.8	124.8	126.8	142.8	159.8
82.5°	115.8	96.9	100.8	117.8	129.8
85°	78.9	74.9	67.9	87.9	93.9
87.5°	41.9	39.9	34.9	49.9	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)