

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: P291034

Luminaire Tested: **14GR-LD5-40-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291034
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4257.0 lumens
Efficiency: N/A
Efficacy: 123.7 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

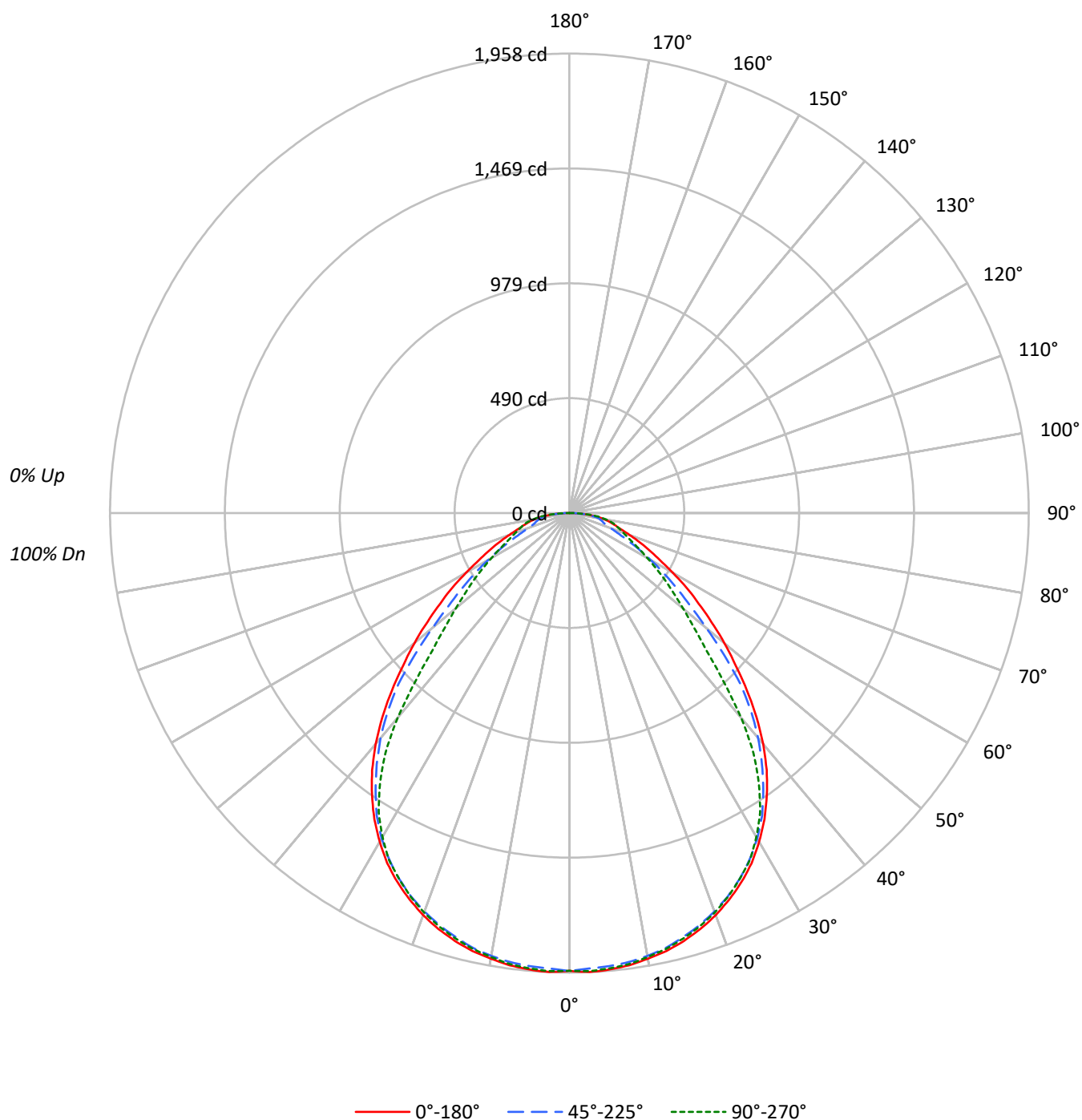
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		74
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		48
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5249	5249	5249
5°	5275	5235	5262
10°	5268	5236	5249
15°	5258	5212	5228
20°	5221	5173	5187
25°	5152	5102	5105
30°	5026	4974	4952
35°	4820	4732	4625
40°	4512	4397	4001
45°	4075	3921	3127
50°	3614	3183	2645
55°	3154	2611	2333
60°	2735	2150	2059
65°	2399	1725	1901
70°	2139	1463	1913
75°	2087	1542	2139
80°	2314	1946	2452
85°	2411	2075	2868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	4.3
10°-20°	530.2	12.5
20°-30°	793.1	18.6
30°-40°	895.3	21.0
40°-50°	759.6	17.8
50°-60°	513.9	12.1
60°-70°	306.8	7.2
70°-80°	192.1	4.5
80°-90°	80.8	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°	1508.5	35.4
0°-40°	2403.8	56.5
0°-60°	3677.3	86.4
0°-90°	4257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1953	1947	1938	1952	1948	186
15°	1888	1884	1871	1884	1877	532
25°	1735	1729	1718	1726	1719	798
35°	1467	1457	1441	1428	1408	914
45°	1071	1075	1030	883	822	825
55°	672	641	557	498	497	606
65°	377	312	271	289	299	376
75°	201	179	148	196	206	216
85°	78	74	67	87	93	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1957.7	1951.7	1942.8	1954.7	1953.7
5°	1952.7	1946.8	1937.9	1951.7	1947.8
7.5°	1943.8	1938.9	1930.0	1942.8	1938.9
10°	1928.0	1924.1	1916.1	1927.0	1921.1
12.5°	1911.2	1908.2	1898.3	1908.2	1902.3
15°	1887.5	1883.5	1870.7	1883.5	1876.6
17.5°	1857.8	1852.9	1842.0	1852.9	1846.9
20°	1823.2	1817.3	1806.4	1817.3	1811.3
22.5°	1781.7	1776.7	1766.8	1776.7	1768.8
25°	1735.2	1729.3	1718.4	1726.3	1719.4
27.5°	1681.8	1673.9	1664.0	1669.9	1666.0
30°	1617.5	1607.7	1600.7	1600.7	1593.8
32.5°	1547.3	1540.4	1528.6	1521.6	1512.7
35°	1467.3	1457.4	1440.6	1427.7	1407.9
37.5°	1381.2	1369.4	1348.6	1316.0	1289.3
40°	1284.3	1269.5	1251.7	1187.5	1139.0
42.5°	1180.5	1177.6	1146.9	1037.2	969.9
45°	1070.8	1074.7	1030.2	882.9	821.6
47.5°	960.0	973.9	892.8	748.5	716.8
50°	863.2	868.1	760.3	649.6	631.8
52.5°	763.3	755.4	648.6	571.5	558.6
55°	672.3	640.7	556.6	498.3	497.3
57.5°	592.2	533.9	475.6	432.1	437.0
60°	508.2	442.9	399.4	375.7	382.6
62.5°	434.0	371.8	333.2	326.3	338.1
65°	376.7	312.4	270.9	288.7	298.6
67.5°	322.3	267.9	220.5	263.0	267.0
70°	271.9	232.3	185.9	242.2	243.2
72.5°	230.4	205.7	161.2	219.5	222.5
75°	200.7	179.0	148.3	195.8	205.7
77.5°	176.0	153.3	137.4	169.1	185.9
80°	149.3	123.6	125.6	141.4	158.2
82.5°	114.7	95.9	99.9	116.7	128.5
85°	78.1	74.2	67.2	87.0	92.9
87.5°	41.5	39.5	34.6	49.4	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)