

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: P291032

Luminaire Tested: **14GR-LD5-40-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291032
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-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: 4127.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

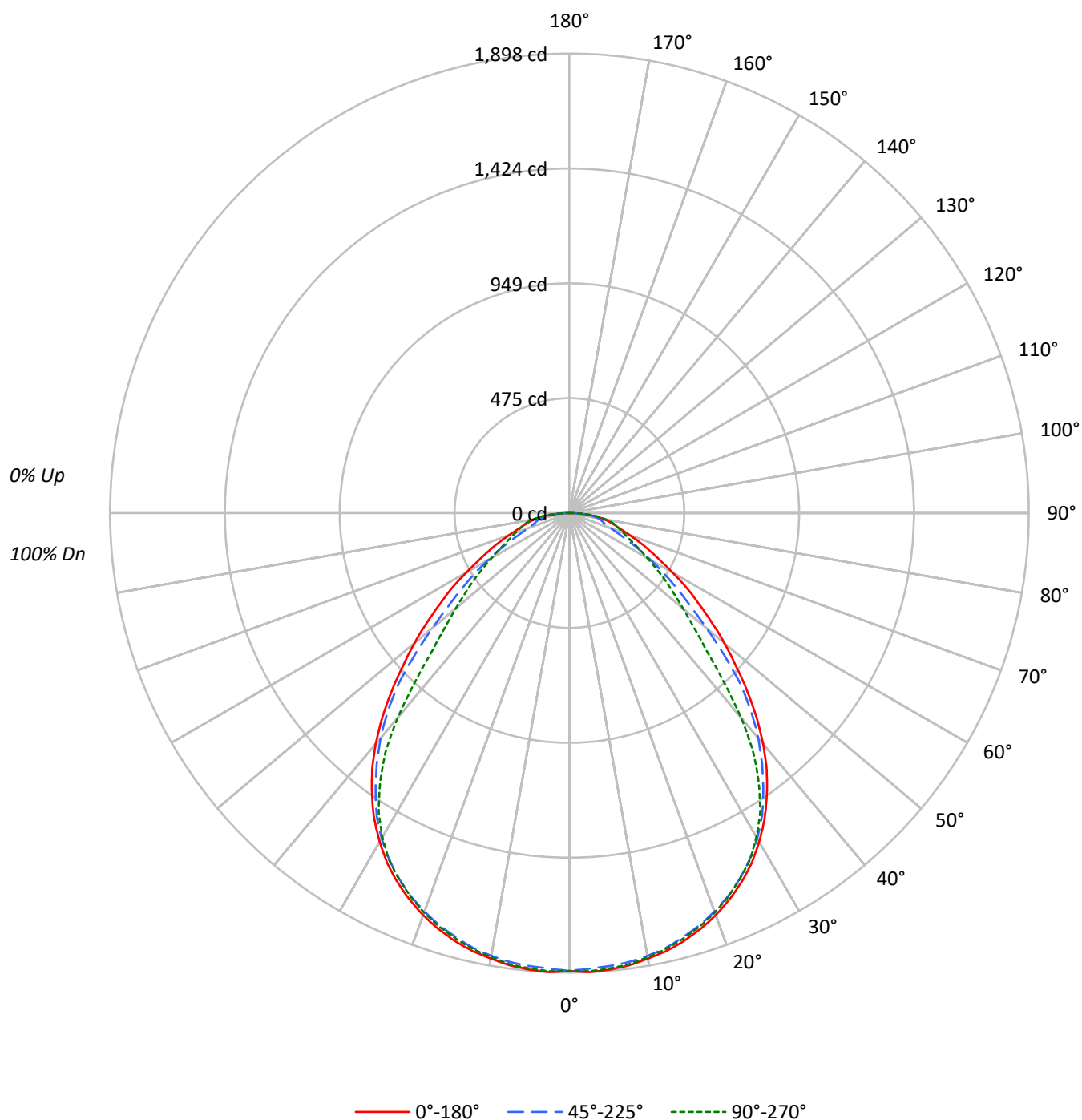
Input Watts (W): 34.038
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5089	5089	5089
5°	5114	5075	5101
10°	5107	5076	5089
15°	5098	5052	5068
20°	5062	5015	5029
25°	4995	4946	4949
30°	4873	4822	4801
35°	4673	4588	4484
40°	4374	4263	3879
45°	3951	3801	3031
50°	3503	3086	2564
55°	3058	2532	2262
60°	2652	2084	1997
65°	2325	1672	1843
70°	2074	1418	1855
75°	2023	1495	2073
80°	2242	1886	2377
85°	2337	2013	2782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	4.3
10°-20°	514.0	12.5
20°-30°	768.9	18.6
30°-40°	868.0	21.0
40°-50°	736.4	17.8
50°-60°	498.2	12.1
60°-70°	297.4	7.2
70°-80°	186.2	4.5
80°-90°	78.3	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°	1462.4	35.4
0°-40°	2330.4	56.5
0°-60°	3565.0	86.4
0°-90°	4127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1893	1887	1879	1892	1888	180
15°	1830	1826	1814	1826	1819	516
25°	1682	1676	1666	1674	1667	774
35°	1422	1413	1397	1384	1365	886
45°	1038	1042	999	856	796	800
55°	652	621	540	483	482	587
65°	365	303	263	280	290	365
75°	195	174	144	190	199	209
85°	76	72	65	84	90	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1891.2	1891.2	1891.2	1891.2	1891.2
2.5°	1897.9	1892.1	1883.5	1895.0	1894.0
5°	1893.1	1887.3	1878.7	1892.1	1888.3
7.5°	1884.5	1879.7	1871.0	1883.5	1879.7
10°	1869.1	1865.3	1857.6	1868.2	1862.4
12.5°	1852.8	1850.0	1840.4	1850.0	1844.2
15°	1829.8	1826.0	1813.5	1826.0	1819.3
17.5°	1801.1	1796.3	1785.7	1796.3	1790.5
20°	1767.5	1761.8	1751.2	1761.8	1756.0
22.5°	1727.3	1722.5	1712.9	1722.5	1714.8
25°	1682.2	1676.5	1665.9	1673.6	1666.9
27.5°	1630.5	1622.8	1613.2	1619.0	1615.1
30°	1568.2	1558.6	1551.9	1551.9	1545.1
32.5°	1500.1	1493.4	1481.9	1475.2	1466.5
35°	1422.5	1412.9	1396.6	1384.1	1364.9
37.5°	1339.1	1327.6	1307.4	1275.8	1249.9
40°	1245.1	1230.7	1213.5	1151.2	1104.2
42.5°	1144.5	1141.6	1111.9	1005.5	940.3
45°	1038.1	1041.9	998.8	856.0	796.5
47.5°	930.7	944.1	865.6	725.6	694.9
50°	836.8	841.6	737.1	629.8	612.5
52.5°	740.0	732.3	628.8	554.0	541.6
55°	651.8	621.1	539.7	483.1	482.1
57.5°	574.2	517.6	461.1	418.9	423.7
60°	492.7	429.4	387.2	364.2	371.0
62.5°	420.8	360.4	323.0	316.3	327.8
65°	365.2	302.9	262.6	279.9	289.5
67.5°	312.5	259.8	213.8	255.0	258.8
70°	263.6	225.3	180.2	234.8	235.8
72.5°	223.3	199.4	156.2	212.8	215.7
75°	194.6	173.5	143.8	189.8	199.4
77.5°	170.6	148.6	133.2	163.9	180.2
80°	144.7	119.8	121.7	137.1	153.4
82.5°	111.2	93.0	96.8	113.1	124.6
85°	75.7	71.9	65.2	84.4	90.1
87.5°	40.3	38.3	33.5	47.9	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)