

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: P291232

Luminaire Tested: **14GR-LD5-40-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A125-UNV-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4314.0 lumens
Efficiency: N/A
Efficacy: 124.7 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

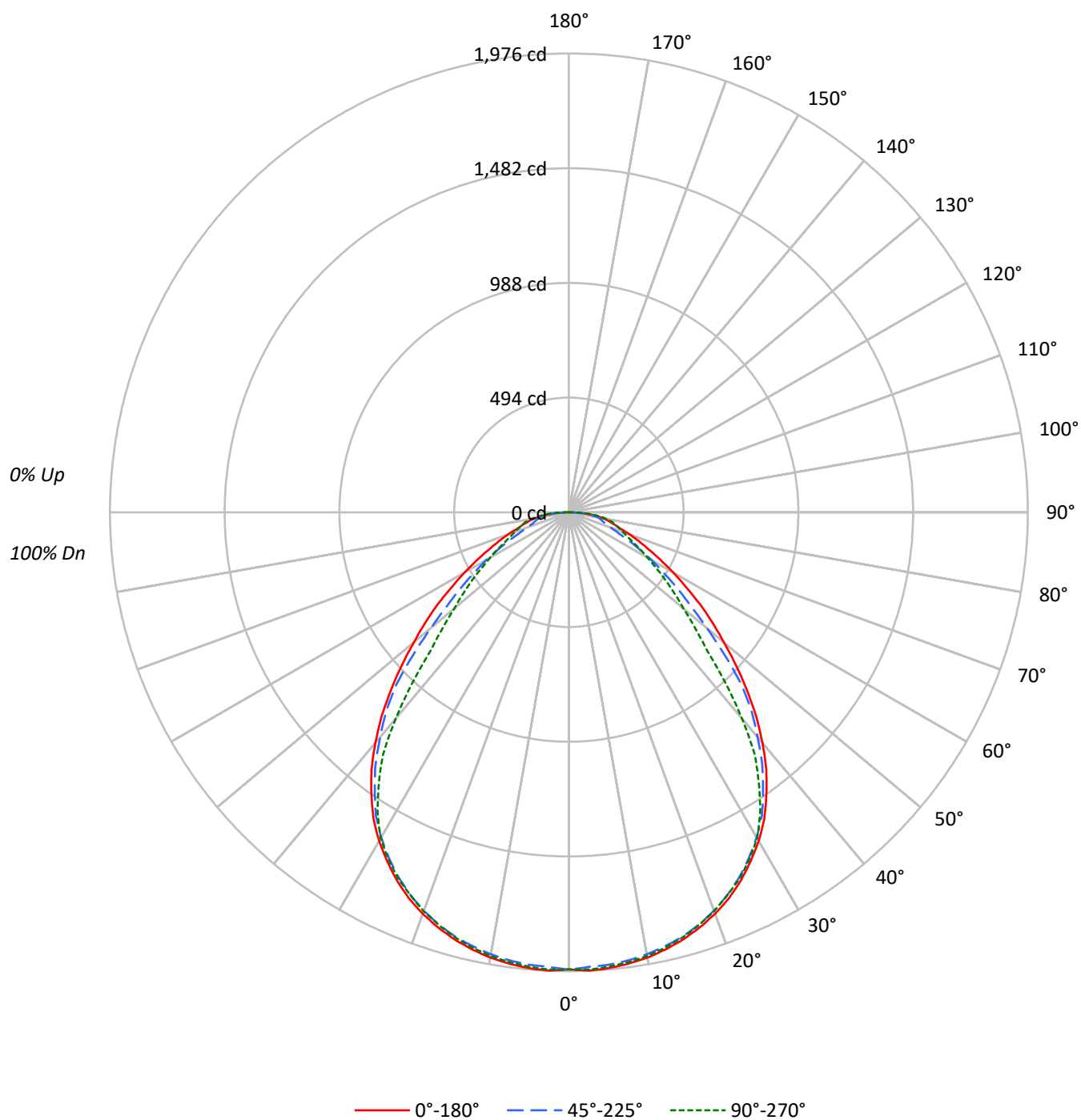
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5297	5297	5297
5°	5323	5283	5307
10°	5322	5281	5303
15°	5303	5270	5278
20°	5268	5228	5233
25°	5197	5150	5165
30°	5078	5022	5035
35°	4869	4787	4685
40°	4553	4440	4075
45°	4121	4003	3196
50°	3645	3239	2694
55°	3226	2662	2376
60°	2785	2203	2106
65°	2422	1752	1937
70°	2189	1504	1937
75°	2102	1571	2165
80°	2342	2001	2528
85°	2473	2133	3029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	4.3
10°-20°	535.1	12.4
20°-30°	800.9	18.6
30°-40°	906.6	21.0
40°-50°	772.2	17.9
50°-60°	522.8	12.1
60°-70°	312.2	7.2
70°-80°	195.0	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°	1522.7	35.3
0°-40°	2429.3	56.3
0°-60°	3724.4	86.3
0°-90°	4314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1969	1969	1969	1969	1969	
5°	1971	1966	1956	1968	1965	187
15°	1904	1897	1892	1904	1895	537
25°	1750	1745	1734	1742	1739	805
35°	1482	1473	1457	1442	1426	924
45°	1083	1086	1052	897	840	835
55°	688	650	568	506	506	615
65°	380	317	275	294	304	383
75°	202	181	151	198	208	218
85°	80	74	69	87	98	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1968.6	1968.6	1968.6	1968.6	1968.6
2.5°	1975.6	1970.6	1959.6	1972.6	1970.6
5°	1970.6	1965.6	1955.6	1967.6	1964.6
7.5°	1960.6	1955.6	1946.6	1958.6	1953.6
10°	1947.6	1941.6	1932.6	1945.6	1940.6
12.5°	1927.6	1921.6	1913.6	1926.6	1919.6
15°	1903.6	1896.6	1891.6	1903.6	1894.6
17.5°	1874.5	1868.5	1861.5	1873.5	1863.5
20°	1839.5	1834.5	1825.5	1832.5	1827.5
22.5°	1799.5	1792.5	1783.5	1791.5	1784.5
25°	1750.4	1745.4	1734.4	1742.4	1739.4
27.5°	1694.4	1691.4	1678.4	1688.4	1683.4
30°	1634.3	1626.3	1616.3	1619.3	1620.3
32.5°	1565.3	1555.3	1547.3	1540.3	1533.3
35°	1482.2	1473.2	1457.2	1442.2	1426.2
37.5°	1396.1	1384.1	1368.1	1335.1	1315.1
40°	1296.1	1290.1	1264.0	1218.0	1160.0
42.5°	1194.0	1188.0	1165.0	1061.9	998.8
45°	1082.9	1085.9	1051.9	896.7	839.7
47.5°	976.8	984.8	910.7	765.6	735.6
50°	870.7	879.7	773.6	661.5	643.5
52.5°	777.6	770.6	659.5	580.5	572.5
55°	687.6	649.5	567.5	506.4	506.4
57.5°	595.5	541.4	482.4	443.4	443.4
60°	517.4	450.4	409.3	383.3	391.3
62.5°	445.4	374.3	339.3	334.3	344.3
65°	380.3	317.3	275.2	294.2	304.2
67.5°	327.3	271.2	226.2	266.2	272.2
70°	278.2	236.2	191.2	245.2	246.2
72.5°	233.2	208.2	164.1	222.2	226.2
75°	202.2	181.1	151.1	198.2	208.2
77.5°	177.1	155.1	139.1	171.1	190.2
80°	151.1	127.1	129.1	144.1	163.1
82.5°	116.1	98.1	102.1	118.1	133.1
85°	80.1	74.1	69.1	87.1	98.1
87.5°	43.0	40.0	35.0	49.0	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)