

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: P291229

Luminaire Tested: **14GR-LD5-40-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291229
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4204.0 lumens
Efficiency: N/A
Efficacy: 122.5 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

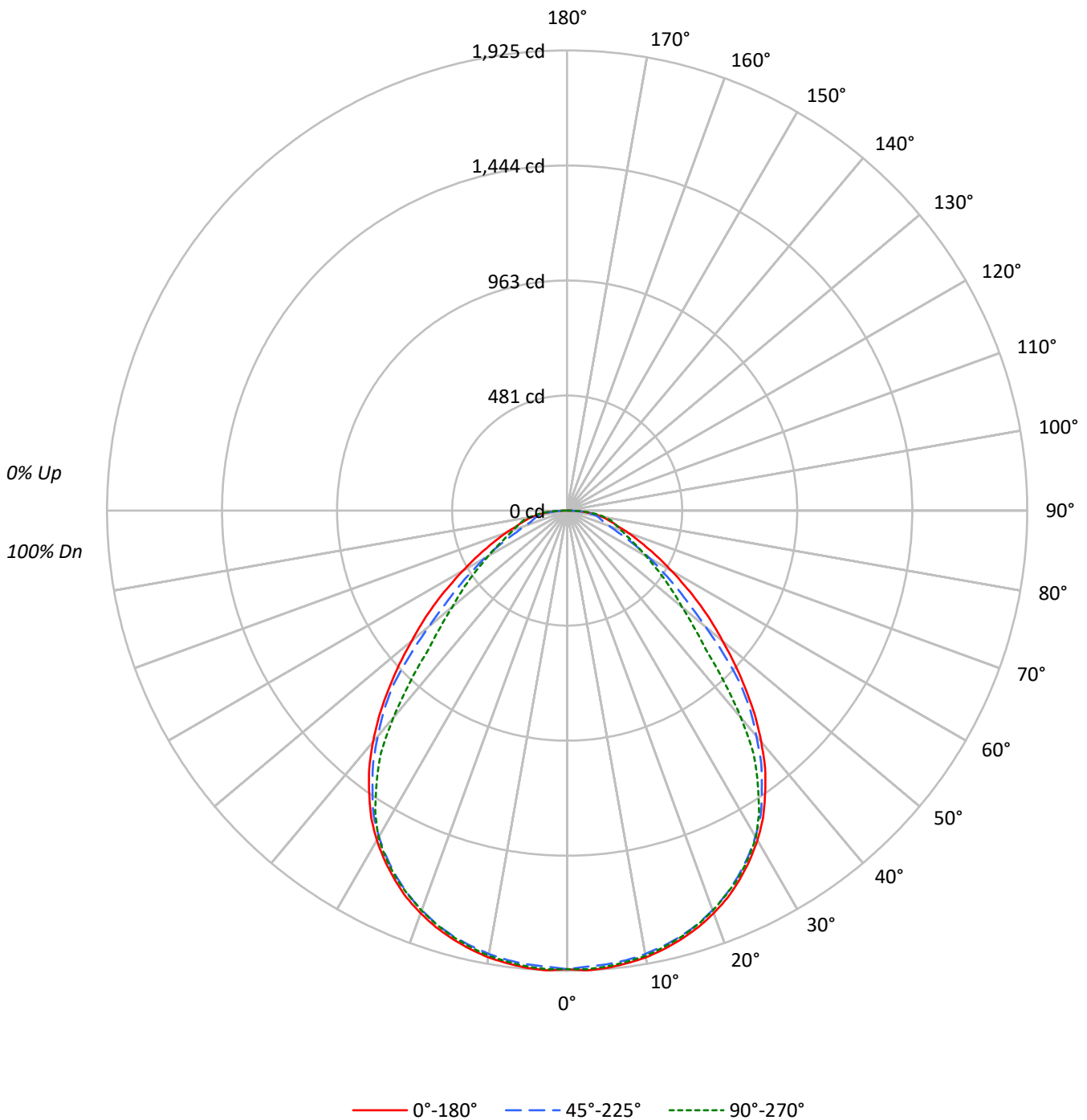
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5162	5162	5162
5°	5187	5148	5172
10°	5186	5146	5167
15°	5168	5135	5143
20°	5133	5094	5100
25°	5065	5018	5033
30°	4949	4894	4906
35°	4745	4665	4566
40°	4437	4327	3971
45°	4016	3901	3114
50°	3552	3156	2625
55°	3143	2594	2315
60°	2714	2147	2052
65°	2360	1708	1888
70°	2133	1466	1888
75°	2048	1531	2110
80°	2283	1949	2464
85°	2408	2078	2952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	4.3
10°-20°	521.5	12.4
20°-30°	780.5	18.6
30°-40°	883.5	21.0
40°-50°	752.5	17.9
50°-60°	509.5	12.1
60°-70°	304.2	7.2
70°-80°	190.1	4.5
80°-90°	80.3	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°	1483.9	35.3
0°-40°	2367.4	56.3
0°-60°	3629.4	86.3
0°-90°	4204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1918	1918	1918	1918	1918	
5°	1920	1916	1906	1917	1914	183
15°	1855	1848	1843	1855	1846	523
25°	1706	1701	1690	1698	1695	785
35°	1444	1436	1420	1405	1390	900
45°	1055	1058	1025	874	818	814
55°	670	633	553	494	494	599
65°	371	309	268	287	296	374
75°	197	176	147	193	203	213
85°	78	72	67	85	96	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1918.4	1918.4	1918.4	1918.4	1918.4
2.5°	1925.2	1920.4	1909.6	1922.3	1920.4
5°	1920.4	1915.5	1905.7	1917.4	1914.5
7.5°	1910.6	1905.7	1897.0	1908.7	1903.8
10°	1897.9	1892.1	1883.3	1896.0	1891.1
12.5°	1878.4	1872.6	1864.8	1877.5	1870.6
15°	1855.0	1848.2	1843.3	1855.0	1846.2
17.5°	1826.7	1820.9	1814.1	1825.8	1816.0
20°	1792.6	1787.7	1778.9	1785.8	1780.9
22.5°	1753.6	1746.8	1738.0	1745.8	1739.0
25°	1705.8	1700.9	1690.2	1698.0	1695.1
27.5°	1651.2	1648.3	1635.6	1645.3	1640.5
30°	1592.7	1584.9	1575.1	1578.0	1579.0
32.5°	1525.4	1515.6	1507.8	1501.0	1494.2
35°	1444.4	1435.6	1420.0	1405.4	1389.8
37.5°	1360.5	1348.8	1333.2	1301.1	1281.5
40°	1263.0	1257.2	1231.8	1186.9	1130.4
42.5°	1163.5	1157.7	1135.3	1034.8	973.4
45°	1055.3	1058.2	1025.0	873.9	818.3
47.5°	951.9	959.7	887.5	746.1	716.8
50°	848.5	857.3	753.9	644.7	627.1
52.5°	757.8	751.0	642.7	565.7	557.9
55°	670.0	633.0	553.0	493.5	493.5
57.5°	580.3	527.6	470.1	432.1	432.1
60°	504.2	438.9	398.9	373.5	381.3
62.5°	434.0	364.8	330.6	325.8	335.5
65°	370.6	309.2	268.2	286.7	296.5
67.5°	318.9	264.3	220.4	259.4	265.3
70°	271.1	230.2	186.3	238.9	239.9
72.5°	227.2	202.9	159.9	216.5	220.4
75°	197.0	176.5	147.3	193.1	202.9
77.5°	172.6	151.2	135.6	166.8	185.3
80°	147.3	123.9	125.8	140.4	159.0
82.5°	113.1	95.6	99.5	115.1	129.7
85°	78.0	72.2	67.3	84.9	95.6
87.5°	41.9	39.0	34.1	47.8	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)