

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: P291033

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291033
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4200.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

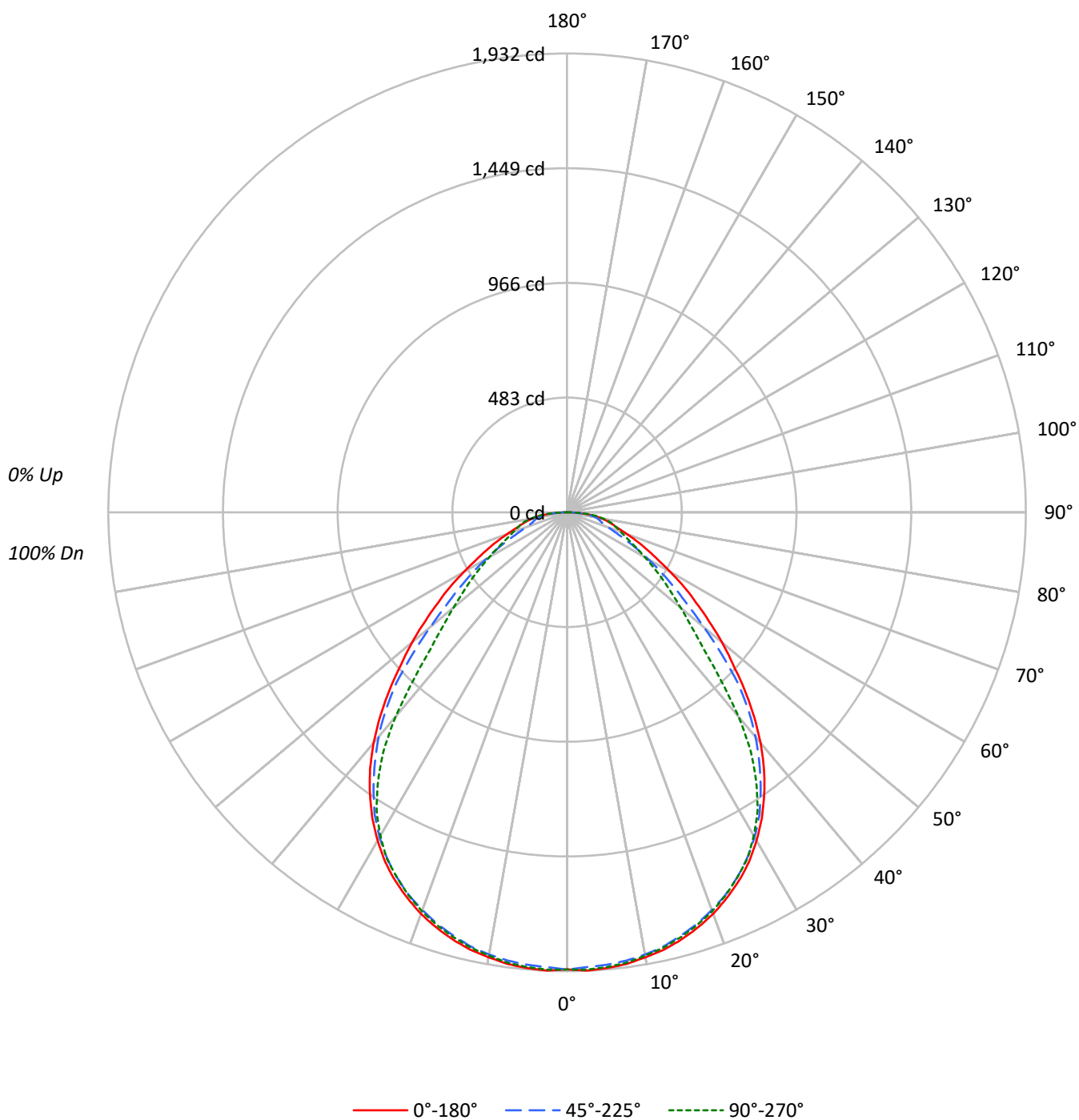
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	5179	5179	5179
5°	5204	5165	5191
10°	5198	5166	5179
15°	5188	5142	5158
20°	5151	5104	5118
25°	5083	5034	5037
30°	4959	4907	4886
35°	4755	4669	4563
40°	4451	4338	3948
45°	4020	3868	3085
50°	3565	3140	2609
55°	3112	2577	2302
60°	2699	2121	2032
65°	2367	1702	1876
70°	2111	1443	1888
75°	2059	1521	2110
80°	2283	1920	2419
85°	2381	2047	2831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	4.3
10°-20°	523.1	12.5
20°-30°	782.5	18.6
30°-40°	883.4	21.0
40°-50°	749.4	17.8
50°-60°	507.1	12.1
60°-70°	302.7	7.2
70°-80°	189.5	4.5
80°-90°	79.7	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°	1488.3	35.4
0°-40°	2371.6	56.5
0°-60°	3628.1	86.4
0°-90°	4200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1925	1925	1925	1925	1925	
5°	1927	1921	1912	1926	1922	183
15°	1862	1858	1846	1858	1852	525
25°	1712	1706	1695	1703	1696	787
35°	1448	1438	1421	1409	1389	902
45°	1056	1060	1016	871	811	814
55°	663	632	549	492	491	598
65°	372	308	267	285	295	371
75°	198	177	146	193	203	213
85°	77	73	66	86	92	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1931.5	1925.6	1916.8	1928.5	1927.6
5°	1926.6	1920.7	1911.9	1925.6	1921.7
7.5°	1917.8	1912.9	1904.1	1916.8	1912.9
10°	1902.2	1898.3	1890.5	1901.2	1895.4
12.5°	1885.6	1882.7	1872.9	1882.7	1876.8
15°	1862.2	1858.3	1845.6	1858.3	1851.5
17.5°	1832.9	1828.1	1817.3	1828.1	1822.2
20°	1798.8	1792.9	1782.2	1792.9	1787.1
22.5°	1757.8	1752.9	1743.2	1752.9	1745.1
25°	1712.0	1706.1	1695.4	1703.2	1696.4
27.5°	1659.3	1651.5	1641.7	1647.6	1643.7
30°	1595.9	1586.1	1579.3	1579.3	1572.5
32.5°	1526.6	1519.8	1508.1	1501.3	1492.5
35°	1447.6	1437.9	1421.3	1408.6	1389.1
37.5°	1362.7	1351.0	1330.6	1298.4	1272.0
40°	1267.2	1252.5	1235.0	1171.6	1123.8
42.5°	1164.7	1161.8	1131.6	1023.3	956.9
45°	1056.4	1060.3	1016.5	871.1	810.6
47.5°	947.2	960.8	880.9	738.4	707.2
50°	851.6	856.5	750.1	640.9	623.3
52.5°	753.1	745.3	639.9	563.8	551.1
55°	663.3	632.1	549.2	491.6	490.7
57.5°	584.3	526.8	469.2	426.3	431.2
60°	501.4	437.0	394.1	370.7	377.5
62.5°	428.2	366.8	328.7	321.9	333.6
65°	371.7	308.3	267.3	284.8	294.6
67.5°	318.0	264.4	217.5	259.5	263.4
70°	268.3	229.2	183.4	239.0	240.0
72.5°	227.3	202.9	159.0	216.6	219.5
75°	198.0	176.6	146.3	193.1	202.9
77.5°	173.6	151.2	135.6	166.8	183.4
80°	147.3	121.9	123.9	139.5	156.1
82.5°	113.2	94.6	98.5	115.1	126.8
85°	77.1	73.2	66.3	85.8	91.7
87.5°	41.0	39.0	34.1	48.8	45.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)