

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: P290780

Luminaire Tested: **14GR-LD5-40-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F125-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4295.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

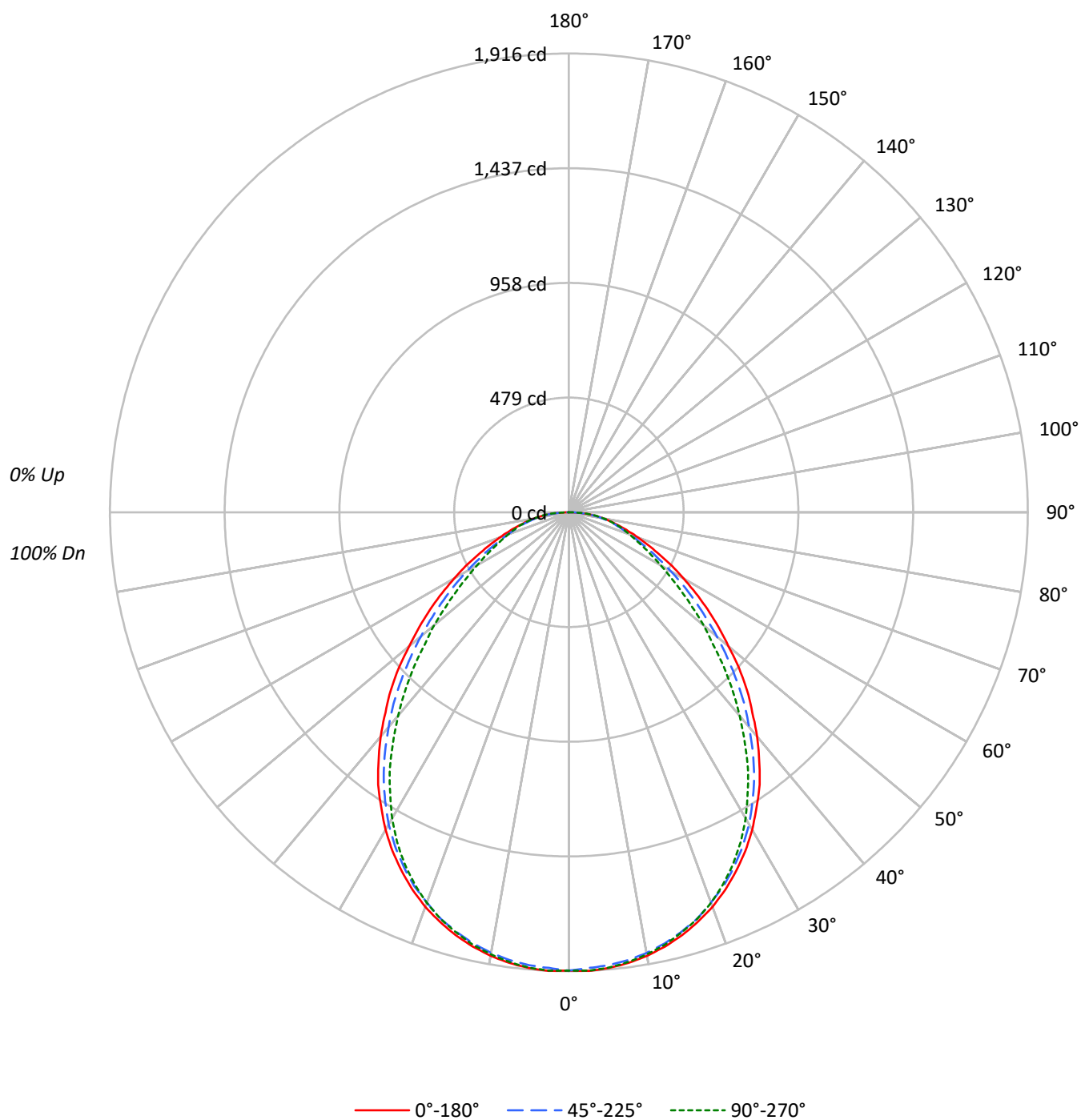
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5149	5149	5149
5°	5160	5128	5155
10°	5137	5104	5121
15°	5092	5053	5061
20°	5020	4966	4968
25°	4906	4846	4813
30°	4755	4674	4586
35°	4560	4428	4282
40°	4295	4111	3895
45°	4005	3764	3484
50°	3642	3376	3077
55°	3316	2994	2682
60°	2973	2637	2382
65°	2651	2350	2189
70°	2412	2142	2118
75°	2253	2086	2191
80°	2266	2156	2281
85°	2365	2211	2523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	4.2
10°-20°	512.9	11.9
20°-30°	752.0	17.5
30°-40°	839.4	19.5
40°-50°	759.9	17.7
50°-60°	573.8	13.4
60°-70°	375.1	8.7
70°-80°	220.3	5.1
80°-90°	80.6	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°	1445.9	33.7
0°-40°	2285.2	53.2
0°-60°	3619.0	84.3
0°-90°	4295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1910	1906	1898	1909	1908	181
15°	1828	1825	1814	1824	1817	515
25°	1652	1646	1632	1629	1621	760
35°	1388	1376	1348	1318	1304	865
45°	1052	1036	989	936	915	809
55°	707	691	638	588	572	632
65°	416	403	369	348	344	418
75°	217	211	201	205	211	233
85°	77	74	72	81	82	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1913.4	1913.4	1913.4	1913.4	1913.4
2.5°	1916.4	1913.4	1904.3	1916.4	1915.4
5°	1910.4	1906.3	1898.3	1909.4	1908.4
7.5°	1898.3	1894.2	1886.2	1896.3	1894.2
10°	1880.1	1876.1	1868.0	1879.1	1874.1
12.5°	1856.9	1852.9	1843.8	1853.9	1849.9
15°	1827.7	1824.7	1813.6	1823.7	1816.6
17.5°	1792.4	1787.4	1779.3	1785.4	1780.3
20°	1753.1	1747.1	1734.0	1740.0	1735.0
22.5°	1705.7	1697.7	1688.6	1688.6	1681.5
25°	1652.3	1646.2	1632.1	1629.1	1621.0
27.5°	1594.8	1589.8	1571.6	1566.6	1552.5
30°	1530.3	1523.3	1504.1	1488.0	1475.9
32.5°	1458.7	1453.7	1427.5	1406.3	1389.2
35°	1388.2	1376.1	1347.8	1317.6	1303.5
37.5°	1305.5	1296.4	1261.1	1223.8	1204.7
40°	1222.8	1211.7	1170.4	1129.1	1108.9
42.5°	1133.1	1123.0	1083.7	1034.3	1013.2
45°	1052.5	1036.3	989.0	935.5	915.4
47.5°	963.8	946.6	896.2	839.8	816.6
50°	870.0	858.9	806.5	752.1	734.9
52.5°	786.3	769.2	719.8	666.4	648.2
55°	706.7	690.6	638.1	587.7	571.6
57.5°	627.0	608.9	563.5	518.2	502.0
60°	552.4	534.3	489.9	452.6	442.6
62.5°	484.9	464.7	425.4	396.2	389.1
65°	416.3	403.2	369.0	347.8	343.8
67.5°	358.9	342.8	315.5	305.5	303.4
70°	306.5	295.4	272.2	269.2	269.2
72.5°	259.1	250.0	232.9	234.9	237.9
75°	216.7	210.7	200.6	204.6	210.7
77.5°	180.5	174.4	168.4	174.4	178.4
80°	146.2	140.1	139.1	144.2	147.2
82.5°	109.9	104.8	105.9	113.9	116.9
85°	76.6	73.6	71.6	80.6	81.7
87.5°	39.3	37.3	36.3	43.3	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)