

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: P290644

Luminaire Tested: **14GR-LD5-40-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4264.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

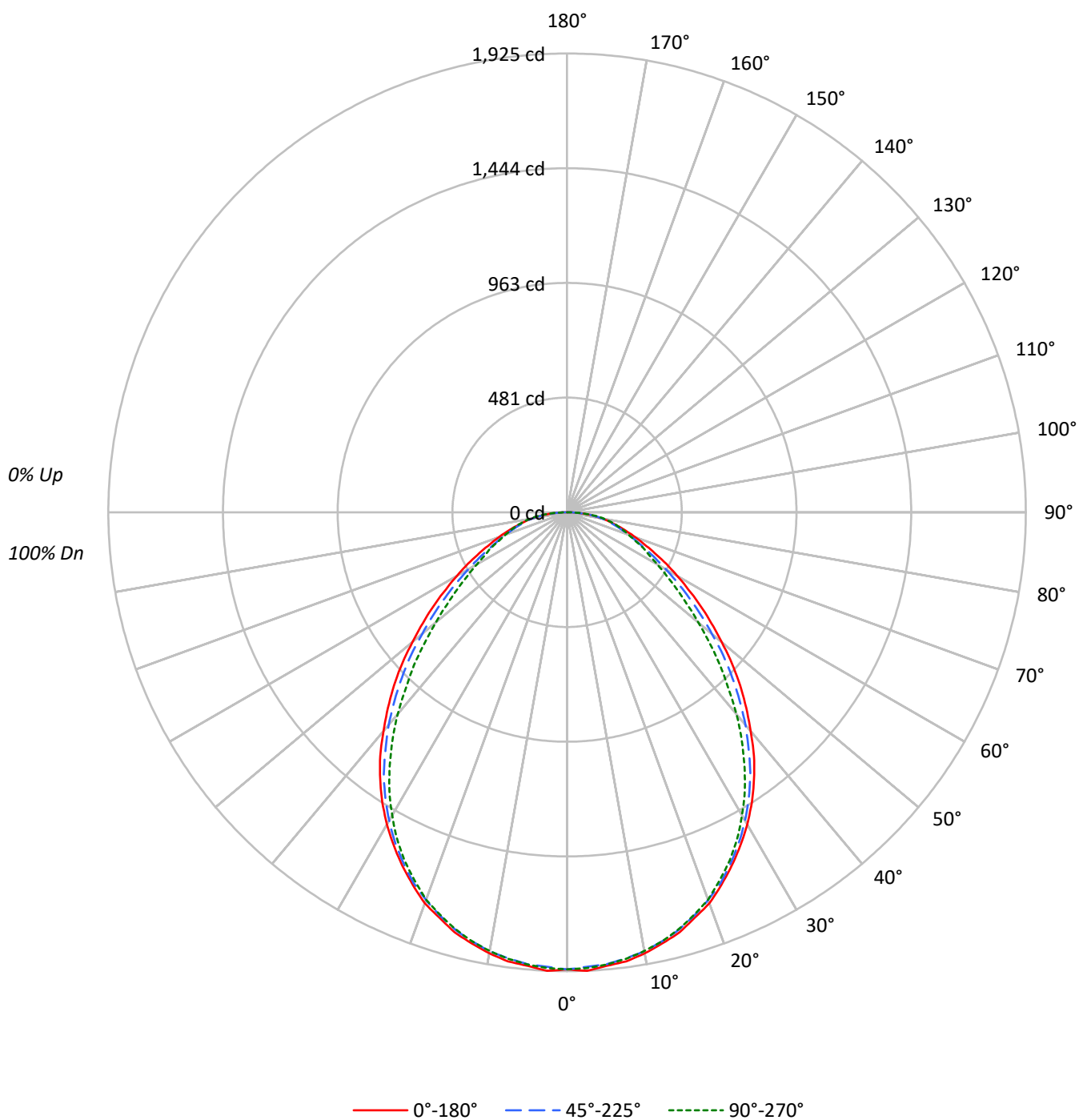
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	5160	5160	5160
5°	5159	5140	5143
10°	5133	5109	5106
15°	5081	5051	5043
20°	4999	4957	4951
25°	4855	4823	4788
30°	4698	4640	4561
35°	4492	4405	4261
40°	4206	4089	3887
45°	3906	3731	3459
50°	3543	3322	3012
55°	3205	2935	2632
60°	2877	2572	2346
65°	2583	2297	2246
70°	2384	2138	2161
75°	2276	2144	2267
80°	2303	2287	2469
85°	2384	2353	2624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	4.2
10°-20°	511.8	12.0
20°-30°	747.4	17.5
30°-40°	832.8	19.5
40°-50°	750.4	17.6
50°-60°	560.9	13.2
60°-70°	370.0	8.7
70°-80°	225.9	5.3
80°-90°	83.8	2.0
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°	1440.2	33.8
0°-40°	2273.0	53.3
0°-60°	3584.3	84.1
0°-90°	4264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1918	1918	1918	1918	1918	
5°	1910	1908	1903	1913	1904	182
15°	1824	1817	1813	1824	1810	513
25°	1635	1629	1624	1627	1613	753
35°	1367	1356	1341	1318	1297	853
45°	1026	1016	980	935	909	790
55°	683	672	626	574	561	612
65°	406	393	361	346	353	407
75°	219	215	206	213	218	234
85°	77	74	76	84	85	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1925.4	1916.7	1908.8	1920.6	1913.7
5°	1909.8	1907.9	1903.0	1912.7	1903.9
7.5°	1900.0	1893.2	1887.3	1899.1	1889.3
10°	1878.5	1874.6	1869.7	1879.5	1868.8
12.5°	1852.1	1848.2	1843.3	1855.1	1843.3
15°	1823.8	1817.0	1813.0	1823.8	1810.1
17.5°	1782.7	1779.8	1774.0	1784.7	1771.0
20°	1745.6	1734.9	1730.9	1738.8	1729.0
22.5°	1691.9	1684.0	1683.1	1687.9	1671.3
25°	1635.2	1629.3	1624.4	1627.3	1612.7
27.5°	1575.5	1567.7	1561.9	1560.9	1545.2
30°	1512.0	1502.2	1493.4	1485.6	1468.0
32.5°	1442.6	1430.9	1419.2	1406.5	1387.9
35°	1367.4	1355.6	1341.0	1317.5	1297.0
37.5°	1288.2	1274.5	1251.1	1223.7	1203.2
40°	1197.3	1190.5	1164.1	1128.9	1106.4
42.5°	1112.3	1104.4	1071.2	1032.1	1001.8
45°	1026.3	1015.5	980.3	935.4	909.0
47.5°	938.3	927.5	888.4	832.7	809.3
50°	846.4	840.6	793.6	742.8	719.4
52.5°	762.4	755.5	707.6	656.8	635.3
55°	683.2	672.4	625.5	573.7	561.0
57.5°	604.0	592.3	548.3	504.3	495.5
60°	534.6	520.0	477.9	443.7	435.9
62.5°	469.1	452.5	417.3	391.0	387.0
65°	405.6	392.9	360.7	346.0	352.8
67.5°	350.9	338.2	314.7	308.9	306.9
70°	303.0	291.3	271.7	273.7	274.6
72.5°	259.0	252.2	237.5	242.4	246.3
75°	218.9	215.0	206.2	213.1	218.0
77.5°	182.8	179.8	175.9	181.8	189.6
80°	148.6	146.6	147.6	151.5	159.3
82.5°	114.4	110.4	113.4	121.2	126.1
85°	77.2	74.3	76.2	84.1	85.0
87.5°	36.2	36.2	35.2	41.1	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)